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Homemakers'
Use of and
Opinions About
Selected Fruits
and Fruit
Products



U.S. DEPARTMENT OF AGRICULTURE · STATISTICAL REPORTING SERVICE · MARKETING RESEARCH REPORT NO. 765



HIGHLIGHTS

Nearly every household in the United States had purchased some fresh fruit in the past 12 months, according to the testimony of homemakers interviewed in a nationwide survey. A variety of fruits was used in the majority of these homes--better than half of the homemakers indicated that in the preceding year they had purchased 7 of the 11 fresh fruits covered in the questionnaire.

Nonpurchasers of the specific fresh fruits gave a variety of reasons for not buying these fruits. However, many of the reasons given did not indicate an actual dislike of the fruit itself. For example, nonpurchasers of apples, grapes, peaches, pears, and plums or fresh prunes cited "have own trees, friends and relative supply them" as reasons for not buying them. However, a large proportion of nonpurchasers of nectarines stated that they were "unfamiliar with the fruit." Apricots and cherries were not purchased because homemakers were "unable to obtain the fruit," while nearly half of those who had not purchased pineapple said that they had not done so because "it was difficult to prepare." Many pineapple users also mentioned this disadvantage.

Most homemakers (75 percent) generally like to buy unpackaged or loose fresh fruit, although 10 percent of this group said that there were some specific fruits they prefer packaged. "You get no spoiled or bruised fruit," "you can get the number you want," and "you can choose the one you want" were the main reasons given for preferring to buy fruit loose.

Homemakers were asked to select from a list of both positive and negative statements those they felt were especially true about six specific fresh fruits--apples, pears, bananas, grapes, peaches, and plums or fresh prunes. While homemakers generally selected the same positive statements for all the fruits, the frequency with which they were mentioned varied according to each fruit's special appeal to the consumer. "Good for health," and "good for snacks or packed lunches," were selected most often for most of the fruits. However, more than a third as many selected these reasons for apples (91 and 93 percent) as did for plums or fresh prunes (66 and 51 percent). "Can be used in many ways" was selected by more than twice as many homemakers for apples (86 percent) as for plums or fresh prunes (20 percent). Negative statements, on the other hand, were generally selected less frequently but with proportionately wider variation in frequency. "Messy to eat" was cited by better than 4 in 10 (43 percent) of the homemakers for peaches, while only 1 percent mentioned it for apples.

When they last purchased fruit, roughly half of the homemakers had a specific fruit in mind before they went to the store. Better than a fourth had planned to buy some fruit but decided on the specific fruit in the store; almost one-sixth did not have fruit in mind at all but decided to purchase some while in the store.

When asked what they thought could be done by the store manager to increase the purchase of fresh fruits, homemakers felt "high-quality fruit" and "attractive displays" would be the most important influences.

FRESH APPLES

The use of fresh apples in the home is almost universal, with better than 9 in 10 homemakers indicating they had purchased them in the last year. Fresh apples were purchased most often in the supermarkets (as defined by the respondent), followed by the grocery stores; however, the majority of homemakers said they bought them at more than one outlet.

PREFACE

This report presents information on American homemakers' use of and attitudes toward selected fresh and processed fruits.

The study reported was conducted by the Special Surveys Branch, Standards and Research Division, Statistical Reporting Service. It is part of a broad program which will help agricultural industries strengthen their market position and give consumers an opportunity to evaluate the products available to them.

The study was conducted under the general direction of Trienah Meyers and Margaret Weidenhamer, and was planned by Elizabeth Watters. Subject-matter specialists in the U.S. Department of Agriculture and industry advisors gave technical advice during the development of the study. Industry advisors were the United Fresh Fruit and Vegetable Association; National Peach Council; International Apple Association; National Apple Institute; and the California Grape and Tree Fruit League.

Crossley, S-D Surveys, Inc., New York City, under contract with the U.S. Department of Agriculture, designed the sample, developed the questionnaire, conducted the survey, and prepared a draft of the report.

A preliminary release (SRS-6--Homemakers' Use of and Opinions About Selected Fruits and Fruit Products) was published in May 1965.

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Nearly all homemakers who used fresh apples said they were eaten "out of hand," with better than half also using apples in salads. They were eaten either as daytime or evening snacks in 77 percent of the households; 39 percent of the homemakers reported that apples were carried in a "packed lunch" by family members.

When looking for fresh apples for eating raw, most homemakers wanted apples that were red, juicy, unblemished, not bruised, of medium size, firm but not hard, sweet, and of the Delicious variety.

Better than 8 homemakers in 10 said they had used fresh apples for cooking or baking in the preceding year. Those who had not used them gave as their reasons "prefer raw apples," "no time to bake," or "it is not worth the effort." Apple pies, baked apples, and applesauce were cited most often as uses of apples in cooking or baking.

About 6 in 10 of the respondents who reported using fresh apples for cooking or baking said that they used less than half of all the apples they purchased in this manner. The level of apple purchases seemingly was not related to the proportion used for cooking or baking. About 60 percent of the high and low purchasers of apples used less than half of the fresh apples they purchased in cooking or baking.

When choosing fresh apples for cooking or baking the homemaker wanted apples that were juicy, firm but not hard, tart, of medium size, and without blemishes or bruises. Color, while important, was not as important in a cooking apple as in one that was to be eaten raw. Preference for a certain variety of cooking apple seemed to vary by region, with no one variety an overall favorite.

Homemakers who mentioned that they had difficulty in finding good fresh apples were in the minority (14 percent). Most of those who did so, said they were difficult to find in the spring and summer. About twice as many homemakers (28 percent), however, had been disappointed in apples they had purchased in the past year. They were disappointed mainly with the texture or taste of the apples.

APPLESAUCE

Most of the homemakers said they had used applesauce in some form in the past year--36 percent had used both processed and homemade; almost the same proportion reported the use of processed only, while 14 percent had used homemade applesauce only. When the users of processed applesauce were asked which they preferred, nearly half indicated that they preferred the homemade variety mainly because of taste--either it "could be flavored to one's own taste," "had a better taste" generally, or "had a fresh taste." Those who said they preferred the processed (about a third) cited its convenience.

According to the majority of all the homemakers interviewed, "good applesauce" should be yellow, sweet tasting, smooth, and of medium thickness.

PROCESSED FRUIT

Homemakers were questioned about their use of nine canned fruits (pineapple, peaches, pears, apricots, sweet cherries, apples, plums or prunes, sour cherries, fruit cocktail or salad) in the last year. Between 32 and 86 percent indicated the use of each of these nine canned products. Only 3 percent said they had not purchased any of these canned products during that time.

Except for pineapple, the incidence of purchase of each of these fruits was higher among homemakers who had bought the same fresh fruit in the past year.

When asked which of four fruit juices (grape, pineapple, prune, and apple) they had purchased, from 38 to 63 percent of the homemakers reported using these juices in the past year. Only 13 percent indicated they had not purchased any of them.

PRUNES

A large proportion of the respondents indicated that they had used prunes in some form (canned, dried or prune juice) in the last year. Dried prunes had been used by 59 percent of the homemakers, about half of whom had served them at least once a month.

A variety of reasons were given for the use of prunes. They were used mainly as a laxative or because they were healthy or nutritious.

RAISINS

The proportion of homemakers who used raisins in the home had not changed since 1957. In both surveys, 83 percent of the American homemakers reported using raisins; however, they were used less frequently by homemakers in the current survey.

HOMEMAKERS' USE OF AND OPINIONS ABOUT SELECTED FRUITS AND FRUIT PRODUCTS

By

L. Yvonne Clayton, Study Director Standards and Research Division Statistical Reporting Service

INTRODUCTION

Per capita consumption of fresh noncitrus fruits has declined in the past 20 years, but consumption of processed noncitrus fruit during this same period increased considerably. To understand the noncitrus market better, the industry needs up-to-date information on how each product appeals to the consumer and what aspects the consumer reacts to negatively.

To provide these data, the U.S. Department of Agriculture conducted a nationwide survey of consumers' attitudes. Such information is an important aid in maintaining or increasing markets for, and consumers' satisfaction with, agricultural products.

Data were obtained in personal interviews with a national probability sample of homemakers, chosen as representative of households throughout the Nation. The homemaker is defined as the person with primary responsibility for purchasing and preparing food for the household. In most households this person is a woman, but men qualified as respondents in about 5 percent of the 2,454 sample households.

Interviewing was done from mid-November 1963 to mid-January 1964. Interviews required, on the average, about an hour.

Limitations of the Data

In interpreting the results of this study, as in all studies involving sampling, allowance must be made for error that might result from interviewing a sample and not the whole population. Sampling errors are discussed in the appendix. In general, figures based on the responses of all the homemakers interviewed may be assumed to be within 3 percentage points of the figures that would have been obtained from a census conducted under the same circumstances.

As in all studies, the figures are also subject to errors of response and of reporting. For example, some homemakers may have erred in reporting from memory on whether or not they had used certain products, the amount they had used, and the frequency with which they had used them during the past year.

It should be taken into consideration that when a homemaker says she uses a product two or three times a week she is describing what she considers to be her general practice. However, occasionally she may omit a week because the price is too high, because the item is not available, because the family is away, or for some other reason. Therefore, in any given week the proportion of homemakers using a product will undoubtedly be smaller than the proportion who say they use it once a week or more.

FRESH NONCITRUS FRUIT

USE OF FRESH NONCITRUS FRUITS

Nearly every household in the United States used some fresh noncitrus fruit in the 12 months preceding the study. Homemakers were asked general questions on their purchase and use of 11 specific fresh fruits and more specific questions about some of them. Those respondents who had not purchased the specific fruits in the preceding 12 months were then questioned about their use of them in recent years. As shown below, better than half of the respondents said that they had purchased bananas, apples, oranges (included to permit comparison), grapes, peaches, pears, and plums or fresh prunes, and over a third reported the purchase of cherries and nectarines. Nonusers were questioned about their purchase of these fruits in recent years. From 10 to 17 percent of the homemakers said they had purchased cherries, nectarines, pineapple, and apricots in recent years.

Homemakers who had purchased fresh fruit:

Fruit	In the past 12 months	Not in the past 12 months but in recent years 1
	Percent	Percent
Bananas	96 94	1
Apples	90	4
Grapes	89 86	5
Plums or prunes	68 66	9 8
Cherries (sweet) Nectarines	48 38	14 10
Pineapple	29 22	17 17

¹ Percentage for all homemakers.

Although the use of fresh noncitrus fruit in a 12-month period seemed to be universal, there were some slight variations in its use among different segments of the population. As might be expected, the incidence of purchase of all fruit was higher among the better educated homemakers and those in the upper income brackets. Grapes, oranges, and plums or fresh prunes were purchased by a slightly larger proportion of households with children. Cherries, pears, pineapple, plums or fresh prunes, apricots, and nectarines seemed to be more popular with families in the larger metropolitan areas. Apricots and nectarines were purchased by a large number of homemakers in the West, while cherries, pears, pineapple, and plums or fresh prunes found their greatest acceptance in the Northeast (appendix, table 1).

Only 39 homemakers said that in the preceding year they had not purchased at least one of the 11 fresh fruits included in the study. This number was too small for any detailed analysis.

Reasons for Nonpurchase of Specific Fresh Fruits

Nonpurchasers of the specific fresh fruits gave a variety of reasons for not having purchased them in the past 12 months. However, some of the reasons given by the homemakers were not a deterrent to their use of the specific fruits or an indication that the fruit itself was disliked. The principal reason given for not purchasing apples, grapes, peaches, pears, and plums or prunes was "have own trees or friends and relatives supply them." Nonpurchasers of apricots and nectarines reported that they were unable to obtain these fruits or were unfamilar with them.

The small proportion of homemakers who had not purchased bananas and oranges said that they had not done so for reasons related to health--they thought these fruits were difficult to digest or that they were allergic to them.

Over half of the homemakers said that they had not purchased cherries or pineapple; they indicated that these fruits were too expensive or were difficult to prepare (table 2).

Homemakers' Opinions About Amounts of Selected Fresh Fruits They Had Purchased During the Past Five Years

Purchasers of apples, bananas, grapes, and peaches were asked if they thought they had bought more, less, or about the same amount in the past 12 months, compared with 5 years ago. Those who reported they were purchasing less were more than offset by those who indicated that they were purchasing more, as shown below:

	Apples	Bananas	Grapes	Peaches
		Per	cent	
More in past year	41	36	30	28
Less in past year	14	10	12	16
About the same	45	54	58	56
Number of cases	2,307	2,351	2,179	2,104

For all four fruits, those respondents who reported having bought more during the past year included relatively higher proportions of:

- -- younger homemakers
- -- families with children
- -- upper income, better educated homemakers
- -- those living in metropolitan areas

More details can be found in table 3.

Reasons for Buying More or Less Fruit Nowadays

The major reasons given for buying more fruit now than 5 years ago were "the family is larger" (mentioned by more than 40 percent of the homemakers) and, "children are older--old enough to eat them" (cited by over 30 percent). (table 4)

The main reason given by the homemaker for buying less of each of the fruits now was "the family is smaller" (table 5).

Purchasing of Fresh Fruit by Season

Homemakers who had purchased apples, bananas, grapes, peaches, pears, plums or fresh prunes were asked the following questions:

"What amount of fresh (name of fruit) do you usually buy at a time during (that season)?"

"About how often do you buy (name of fruit) in this quantity during (that season)?"

"In what other seasons do you buy fresh (name of fruit)?"

The official dates of the seasons were not mentioned to the respondents, and they therefore made their own interpretations of them. Consequently, there may be some overlap in, for example, fall-winter and summer-fall.

Fall and winter are the seasons in which most homemakers said they bought the greatest amount of fresh apples. Bananas are bought fairly consistently all year. Grapes are purchased in greatest amounts by more homemakers in the fall, followed by summer, then winter.

Peaches and plums or fresh prunes are bought primarily in the summer; about twothirds of the purchasers of these fruits said that this was the only season in which they had purchased them. Homemakers mentioned buying more pears in the fall and summer than at other times. Half of the pear users indicated that these were the only seasons in which they had purchased them (table 6).

On the basis of their responses to these same questions, homemakers were grouped into thirds as nearly as possible and classified as high, medium, or low purchasers of each of the six fresh fruits. This was done to provide a basis for further analysis; however, the grouping itself revealed some interesting facts.

In general, the level of purchases of the six fruits was lowest among households with no children or with children all under age 6 and (except for purchases of peaches and pears) in the lower income bracket, among homemakers over 50, and in small households.

Regional variations were slight; however, the level of purchase of grapes, pears, and plums or prunes tended to be lower in the South, while proportionately fewer peaches were purchased in the West than in other regions.

Homemakers living in the large metropolitan areas tended to purchase larger quantities of grapes and plums or fresh prunes (tables 7-12).

It is interesting to note that homemakers who are heavy purchasers of apples also tend to buy large quantities of the other five fruits (table 13).

Homemakers' Suggestions for Increasing Consumer Purchases of Fresh Fruit

In an effort to explore several areas of influence on a customer's buying habits, homemakers were asked what they thought a store manager could do to get his customer to buy more of these ll fresh fruits. Nearly all the homemakers (94 percent) gave a suggestion. In their opinion, high-quality fruit and attractive displays would be more important influences than other factors in encouraging customers to increase their purchases of fresh fruit. While slightly better than a third of the purchasers of fresh fruit felt that lower prices or sales and specials would get a customer to buy more fruit, better than two-thirds felt higher quality fruit and more attractive displays would accomplish this (table 14).

Fresh Fruits Purchased Last Time

To get further insight into homemakers' buying patterns and also to establish a basis for more detailed analysis, homemakers were asked what specific fruits they had last purchased. Those fruits that had been mentioned most often as having been purchased in the last 12 months were again cited--61 percent said apples, 57 percent bananas, 28 percent oranges, and 20 percent said grapes.¹

No other fruit was mentioned by more than 8 percent of the homemakers. It should be borne in mind, however, that this study was conducted between mid-November and

¹ These percentages add to more than 100 because some homemakers had included more than one kind of fruit in their last purchase. 2,410 homemakers made a total of 4,685 purchases.

and mid-January; therefore, purchases of summer fruits such as peaches and plums would naturally be low.

Although apples were purchased by the largest proportion of homemakers, bananas (which were second to apples as the fruit last purchased) ranked first in the North Central States (table 15).

Circumstance of Last Purchase

For each fruit purchased last time, homemakers were asked to choose from three statements the one that came closest to describing how they decided to buy it.

Of the 4,685 fruits purchased:

- -- 62 percent were planned before the homemaker entered the store
- -- 24 percent were planned generally but the homemaker decided on the specific fruit in the store
- -- 12 percent were not planned at all the homemaker decided to buy fruit in the store

Homemakers planned their purchases of apples, oranges, bananas and grapefruit much more often than their purchases of pears, grapes, or tangerines (table 16).

These responses were then examined in terms of homemakers rather than in terms of number of fruits purchased. Roughly half (53 percent) of the homemakers planned all of their last purchases of fruit, 15 percent bought all their fruit on impulse, 16 percent made planned and impulse purchases, and 14 percent planned to buy fruit, but decided on the specific fruit in the store. Planned fruit purchases were highest among homemakers in the Northeast (table 17).

PACKAGING OF FRUIT

Homemakers were asked, 'Did You buy (name of fruit) loose or already in some kind of bag or container?" Of the total number of fruits purchased, 72 percent were bought loose and 26 percent were bought packaged. Oranges, apples, and grapefruit were bought packaged to a greater extent than bananas, pears, tangerines, or grapes. No other fruit was mentioned as a last purchase by enough homemakers to draw conclusions (table 18).

When the responses were examined in terms of homemakers, rather than in terms of number of purchases, it was found that 61 percent bought all of their last purchases loose, 16 percent bought all of them packaged, and 21 percent bought some loose and some packaged fruit. Purchasing of loose fruit was higher in the West than in the other regions (table 19).

Preference for Loose and Packaged Fresh Fruit

Purchasers of fresh fruit were asked, "In general, would you like to buy fresh fruit that is already in some kind of bag or container, or would you rather buy it loose?" The majority of the homemakers (75 percent) said they would prefer to purchase their fruit loose. Packaged fruit was preferred by 16 percent of the homemakers and 9 percent said they had no preference.

Loose fruit was generally preferred more often by Western homemakers, those living in metropolitan areas, better educated homemakers, and those in the middle and upper income brackets (table 20).

Homemakers who said they usually preferred to buy fresh fruit loose were asked if there were any fresh fruits they did not like to buy this way. Only 10 percent said they preferred to buy some kinds packaged (table 21).

Of the homemakers who said they generally would rather buy fresh fruit packaged, 40 percent said they preferred to buy some kinds loose; they mentioned bananas and grapes more frequently as the fruits they preferred purchasing this way (table 22).

Advantages of Buying Fresh Fruit Loose or Packaged

All homemakers, regardless of their preferences, were asked "What are the advantages of buying fresh fruit loose?" The main responses were:

You	get no spoiled, bruised fruit.							54	percent
You	can get the number you want		٠					31	percent
	can choose the ones you want								
You	can get the size you want							13	percent

Those homemakers who preferred to buy fresh fruit loose naturally tended to cite the advantages of doing so more often than did homemakers who preferred to buy packaged fruit--16 percent of the latter group said that there were no advantages in buying loose fruit. However, "loose fruit is less expensive" was mentioned more often by those preferring to buy packaged fruit than by those preferring to buy loose fruit (table 23).

All homemakers were also questioned about the advantages of buying packaged fresh fruit (table 24). Thirty-six percent said that there was no advantage, though most of these homemakers, naturally, were people who preferred to buy fruit loose. The main advantages mentioned were:

It is	time saving										28	percent
It is	not handled								٠		14	percent
It is	more sanitary.	٠									10	percent
It is	easy to pick up			٠							9	percent
It is	less expensive		٠								9	percent

FRESH FRUIT PROFILE

To understand the homemakers' attitudes toward 15 selected factors in evaluating fruits, two sets of questions were asked--one on the importance attached to the selected factors in buying fruit in general and the other keyed directly to six specific fruits. Two questionnaire forms were used with the order of statements rotated. This was done to minimize position bias in selecting these statements for both questions. The lists contained both positive and negative statements.

The homemakers were asked how they would rate the importance of each when they were considering the purchase of fresh fruits in general--would they rate them very important, fairly important, or not too important (table 28)? "Good for health" (88 percent), "reasonably priced when in season" (79 percent), and "good for snacks or packed lunches" (66 percent) were the positive statements most frequently rated as very important. Negative statements considered most important were "often bruised, blemished" (78 percent), "family does not like them" (75 percent), and "spoils easily" (69 percent).

In interpreting these findings one should consider that the extent to which any factor is important to a homemaker may vary when she is actually considering the purchase of a particular fruit. Thus, although "good for health" was rated "very important" by more respondents than any other factor, it should not be deduced that "good for health" is the homemaker's main consideration when purchasing all fresh fruit.

For each of six fruits--apples, bananas, grapes, peaches, pears, and fresh prunes--homemakers were asked, "Which of these statements do you feel are especially true about (name of fruit)?" While homemakers generally selected the same positive statements for all fruits, the frequency varied according to each fruit's special appeal to the consumer. "Good for health," "good for snacks or packed lunches," and "can be used in many ways"

were selected <u>most often</u> for most of the fruits. However, about 90 percent felt "good for health," and "good for snacks or packed lunches" were "especially" true for apples, compared with 66 and 51 percent, respectively, who felt these statements applied to plums or fresh prunes. "Can be used in many ways" was selected by 86 percent for apples, 63 percent for bananas, and 62 percent for peaches, contrasted with 26 percent for grapes, 30 percent for pears—while only 20 percent felt this statement was "especially" true for plums or fresh prunes (fig. 1). Other positive statements selected (but with much less variation in frequency among fruits) were "reasonably priced when in season," "can buy ready to use without further ripening," "good laxative," and "low in calories." (table 25)

Negative statements, on the other hand, were selected less frequently and generally with proportionately greater variation in frequency. For example, "spoils easily" and "often bruised, blemished" were chosen by between 56 and 42 percent of the homemakers for bananas and peaches, while they were mentioned by only 18 and 5 percent respectively for apples. Other negative statements (not shown in figure 1) were "hard to digest," "hard to find good quality even in season," "hard to find variety liked even in season," "difficult to tell when ripe," and "family does not like them." (table 25)

As explained earlier, each homemaker was classified as a relatively high, medium, or low purchaser of each fruit based on the amount of each fruit purchased during the main purchase seasons. Apples were considered a good laxative by more of the homemakers whose level of purchase was high than of those whose level of purchases was low. Similarly, high purchasers of bananas more often selected "good for snacks or packed lunches," and high purchasers of grapes more often selected "reasonably priced when in season."

Homemakers whose purchases of peaches and pears were high selected "can be used many ways," "reasonably priced when in season," "good laxative," and "good for snacks or packed lunches" more often than did homemakers whose purchases were low. High purchasers of pears also selected "good for health" more often. Low purchasers of peaches, on the other hand, more often selected "difficult to tell when ripe."

For plums, "can be used many ways," "reasonably priced when in season," and "good for snacks or packed lunches" were most often selected by those with high purchase levels. Surprisingly, this same group also selected "often bruised or blemished" and "spoils easily" most often. "Messy to eat" was most often selected by homemakers whose level of purchases of grapes was low.

Analysis of both positive and negative statements selected by nonusers of each of these fruits revealed some interesting differences. As might be expected, positive statements were selected by a somewhat smaller proportion of nonusers than users; however, a higher proportion of nonusers of apples selected "a good laxative" and "low in calories" than did users. The large proportion of nonusers who selected negative statements for the six fruits seemed to reinforce the reasons they gave for not having used them during the past year (table 2). In some instances a smaller proportion of nonusers than users selected negative statements; obviously these characteristics of the fruit had no appreciable effect on homemakers' nonpurchase of them (tables 26 and 27).

Homemakers' Dislike of Fresh Fruit

In order to further evaluate homemakers' attitudes toward apples, apricots, cherries, grapes, nectarines, peaches, pears, pineapple, and plums or fresh prunes, homemakers were questioned on their dislikes, if any, of these fruits.

Relatively high proportions of homemakers considered pineapple hard to prepare and were not familiar with nectarines. No other single criticism of any of the fruits was made by more than 11 percent of those who had purchased some fresh fruit during the last year (table 29).

With the exception of pineapple, better than half of the homemakers said there was nothing they disliked about any of the specific fruits. Of the 63 percent who expressed some dislike of pineapple, over half objected not to the fruit itself but to the difficulty in preparing it. The proportion of homemakers who said there was nothing they disliked about these fruits varied. A relatively high number of homemakers in the West said there was nothing they disliked about apricots, cherries, and nectarines; while generally more of the respondents in the Northeast and South mentioned that they had no dislike of grapes, peaches, pears, pineapple, or plums and fresh prunes. Older homemakers seemed to object the least to apricots, cherries, peaches, and pineapple (tables 30 and 31).

The negative attitudes of homemakers who had bought each of these nine fruits during the past year, and of those who had not, were examined separately. As would be expected, nonpurchasers generally expressed more dislikes and expressed them more frequently than did purchasers. Moreover, the main dislikes of nonpurchasers were different from those of purchasers except for pineapple--both purchasers and nonpurchasers indicated by large proportions that this fruit was difficult to prepare (table 31).

FRESH APPLES

RAW APPLES

Where Fresh Apples are Bought

The use of fresh apples in the home is almost universal. Better than 9 out of 10 homemakers (94 percent) indicated that they had purchased them in the last year.

When homemakers were asked where they purchased apples most frequently, the majority of them mentioned the supermarket. Homemakers were also asked where occasional purchases were made. They made the following replies:

	Most often	Occasionally
	<u>Pe</u>	rcent
Supermarket	56	16
Grocery store		12
Roadside stand	6	22
Orchard farm		5
Farmer's market	5	8
No other place		32

As defined by the homemaker.

Of the various outlets at which apples were bought, supermarkets were mentioned by a relatively high proportion of Northeastern homemakers, homemakers living in metropolitan areas, and homemakers in the upper income bracket.

Homemakers in rural areas were equally likely to purchase apples from supermarkets and grocery stores. Roadside stands were frequented by a smaller proportion of homemakers living in the South, and in rural areas, homemakers with low incomes, older homemakers, and those with little education. Although fewer homemakers purchased apples at farmers' markets, orchards, and roadside stands, those who did tended to be high purchasers of apples (table 32).

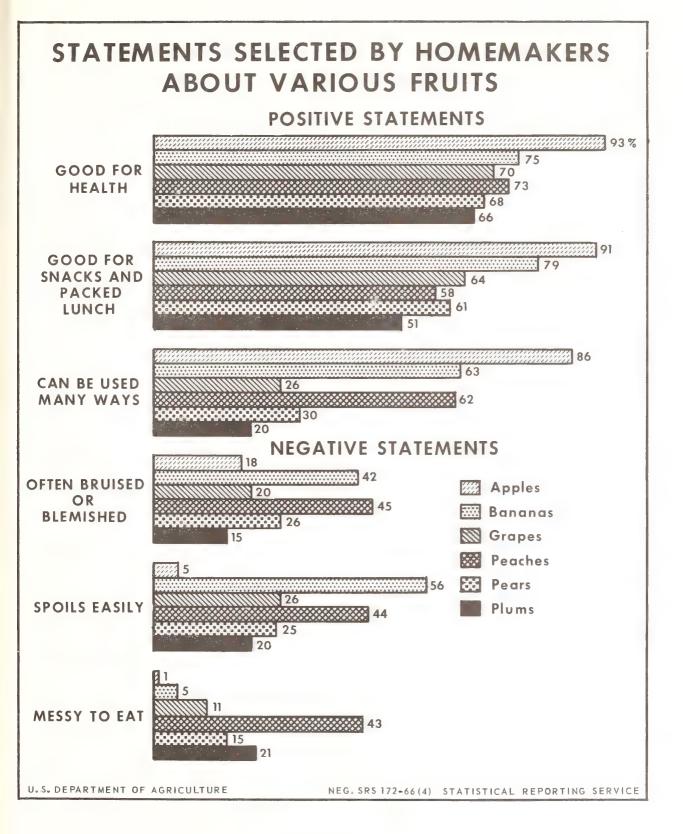


Figure 1

Frequency with Which Apples are Used during Each Season

At the time of the survey the majority of the homemakers said they had used apples at least once a week during all four seasons of the past year:2

		Percent
Once a week during	fall and winter	 86
	the spring	
Once a week during	the summer	 62

Use of apples at least once a week in the fall, winter, and spring was mentioned by higher proportions of Northeastern homemakers and of those in the upper income group, while a higher proportion of homemakers living in large metropolitan areas reported using apples at least once a week in the spring and summer (table 33).

Homemakers' Reasons for Using Fresh Apples Less Often than Once a Week

Homemakers who reported using fresh apples less than once a week during any season were asked why they did not use them more often. The main reasons given varied according to the season under discussion.

Reasons for using less often than once a week	Fall and winter	Spring	Summer
	-	- Percent -	m ell
Too expensive	16	20	16
Like a variety of fruits	14	10	5
Fewer people at home	13	6	5
Not as good at this time of year	5	25	20
So many other fruits are available	2	18	35
Less variety available	3	13	14
Number of cases	327	799	881

See table 34 for further details.

A higher proportion of homemakers in the upper income brackets cited "not as good this time of year" as a reason for using apples less often than once a week in the spring. "So many other fruits are available" was mentioned as a reason for infrequent use during summer and spring by a higher proportion of better educated homemakers and those in the upper income brackets. A higher proportion of homemakers with older children said that apples were too expensive to use as often as once a week in the spring and summer. "Less variety available" was mentioned less frequently by homemakers in the west and more often by respondents in the upper income brackets as their reason for using apples less than once a week in the summer. In the spring, homemakers in the West are likely to use fresh apples less frequently than those in the Northeast because they "like a variety of fruits" (table 35).

Ways in Which Homemakers Use Raw Apples in The Home

Homemakers who had purchased apples were asked, "During the past year, in which of these ways have you used raw apples in your home: Eaten out-of-hand? Salads? Fruit cups?" In answer to these questions:

- 97 percent said they had eaten apples out-of-hand
- 63 percent said they had used them in salads
- 31 percent said they had used them in fruit cups

² Official dates of the seasons were not mentioned to the homemakers; they therefore made their own interpretations of them.

Fewer homemakers in the Northeast than in other regions reported using raw apples for salads; fewer North Central homemakers mentioned using apples for fruit cups.

However, proportions eating raw apples out-of-hand did not vary significantly by region (table 36).

Occasions When Fresh Apples Are Eaten Raw

Homemakers who use raw apples were asked, "When are apples eaten raw <u>most often</u> by your family?" and "When else are they eaten this way?" For both questions, a list of possible answers was read to homemakers--"meals at home," "packed lunches," "daytime snacks" and "evening snacks." Raw apples were used most often for daytime snacks; use for evening snacks was also mentioned frequently.

Answers to the questions are shown below:

Occasions when fresh apples are eaten raw	Most often eaten raw	Other times eaten raw	Total
		<u>Percent</u>	
Daytime snacks	45	32	77
Evening snacks	35	4 2	77
Packed lunches	19	20	39
Meals at home	8	16	24
No particular time	2		2
Number of cases	2,289	2,289	2,289

Analysis by homemakers' background characteristics revealed several variations from the general pattern of use. The use of raw apples in packed lunches and with meals at home showed the greatest variation among the different population segments.

In comparison with the total results, which show that raw apples were used for packed lunches to a greater extent than for meals at home, they were used to about the <u>same</u> extent for these purposes by Southern homemakers, those in the low income category, and in households without children.

Raw apples are used for packed lunches least often by homemakers in the South, those living in rural areas, those homemakers with lower incomes, those over 50 years of age, those small households, and those in homes where there are no children.

Raw apples are used for meals at home by smaller proportions of homemakers in the Northeast, those living in large metropolitan areas, those in the younger group, and those with children (table 37).

Qualities Homemakers Look for When Choosing Fresh Apples for Eating Raw

In order to establish some criteria for the apple industry in the marketing of their product, the homemakers were asked to select from a list of 23 qualities those they

considered when choosing apples for eating raw and for cooking or baking. The qualities selected most often for apples to be eaten raw were:

Qualities	Percent
Juicy	87
No blemishes	71
Medium size	65
Firm but not hard	62
No bruises	62
Sweet	50
Deep red color	43
Bright red color	41
Smooth skin	33
Shiny	26
Hard	24
Tart	21
Variety or kind of apple	27

Clearly, when looking for fresh apples for eating raw, most homemakers want apples that are red, juicy, unblemished, not bruised, of medium size, firm but not hard, and sweet (table 38).

Varieties of Apples Homemakers Prefer for Eating Raw

Users of raw apples were asked, "Which variety or kind of apples do you prefer for eating raw?" Delicious apples were easily the most frequently mentioned, followed by McIntosh, Jonathan, and Winesap or Stayman Winesap in that order. However, as might be expected, there was considerable variation by region. Certain varieties tended to be more popular in the area where they are grown in the largest quantity. McIntosh apples were more popular in the Northeast; Jonathan apples were more popular in the North Central States. Although overall the most frequently mentioned, the Delicious apple was preferred most by homemakers in the South and West. However, there was little regional variation in the proportions who selected the Winesap or Stayman Winesap.

Main varieties of apples preferred for eating raw	U.S. total	Northeast	North Central States	South	West
		<u>F</u>	ercent		
Delicious	58	44	57	62	72
McIntosh	23	60	16	5	9
Jonathan	17	1	40	5	26
Winesap or Stayman Winesap	16	11	13	23	14
Number of cases	2,289	590	669	714	316

See table 39 for further information.

As mentioned before, homemakers were asked to select from a list of 23 qualities those they preferred when choosing eating apples. The qualities selected were examined in terms of the varieties they preferred. However, only four varieties were mentioned by enough homemakers to permit analysis.

Regardless of the variety preferred, homemakers wanted a juicy apple without blemishes or bruises, of medium size, and firm, but not hard. However, when Delicious or McIntosh was the preferred variety, "sweet" was most often selected as a quality

looked for in an eating apple; while Jonathan or Winesap or Staymen Winesap apples were preferred by those who looked for a "tart" apple.

Deep red color was most often mentioned by the homemaker preferring Delicious or Winesap or Stayman Winesap apples; bright red was looked for by those preferring Jonathan apples.

	Vari	eties prefe	rred for eatin	g raw
Qualities looked for	Delicious	Jonathan	Winesap or Stayman Winesap	McIntosh
		<u>Pe</u>	rcent	
Juicy	90	90	86	85
No blemishes or spots	73	79	69	71
No bruises	65	69	60	60
Medium size	64	71	66	67
Firm, but not hard	64	62	59	67
Sweet	57	44	40	46
Deep red	46	37	44	39
Bright red	41	49	41	42
Tart	18	36	39	18
Smooth skin	34	36	34	31
Number of cases	1,317	393	357	531

See table 40 for further details.

APPLES FOR COOKING

Use of Fresh Apples for Cooking or Baking

Homemakers who had bought fresh apples in the preceding year were asked, "During the past year, have you used fresh apples for cooking or baking?" Eighty-four percent said that they had used them for this purpose. The proportions were highest among:

- -- homemakers in the North Central States
- -- homemakers in rural areas
- -- homemakers aged 36 and over
- -- households with children over 6 years of age
- -- homemakers either not employed or employed part time
- -- homemakers with high or medium levels of apple purchases

See table 41.

Homemakers who reported not having used fresh apples for cooking or baking in the past year gave a variety of reasons for this (table 44). The following reasons were mentioned by 10 percent or more of these homemakers:

	Percent
Prefer raw apples	23
No time to bake	21
Not worth the effort	16
Do not bake	
Buy canned applesauce	10
Have little or no cooking experience	10
Use canned cooking apples	10

Ways in Which Fresh Apples Are Used for Cooking or Baking

Users of fresh apples for cooking or baking were asked, "During the past year, in which of these ways have you used fresh apples for cooking or baking; homemade applesauce, baked apples, apple cake, apple pie, other desserts, some other way?": 84 percent said apple pie, 66 percent said baked apples, 64 percent said homemade applesauce, and 30 percent said apple cake.

While the use of fresh apples for baking apple pie was mentioned more often than the other uses by homemakers in all segments of the population, homemakers in the Northeast and the West, in large metropolitan communities, and in households without children were less likely to bake apple pies. In general, however, larger proportions of homemakers in these segments of the population made applesauce.

Baked apples seemed to be favored more by older homemakers and those without children. Apple cake tended to be a regional specialty, with higher proportions of homemakers in the Northeast and North Central areas using apples this way. Over one-third of the respondents mentioned other desserts but no one specific dessert was cited often enough to warrant a detailed discussion (table 45).

Proportions of All Fresh Apples Bought That Are Used for Cooking or Baking

Homemakers who had used fresh apples for cooking or baking were asked, "What percentage of all the fresh apples bought during the past year did you use for cooking or baking?":

- ll percent said they had used 75 percent or more of all their fresh apples for cooking or baking
- 28 percent said they had used between 50 percent and 74 percent for cooking and baking
- 29 percent said they had used between 25 and 49 percent
- 31 percent said they had used less than 25 percent

The level of purchase of apples apparently was unrelated to the proportion of fresh apples used for cooking or baking. About 40 percent of homemakers in both the high-purchase and low-purchase groups used half or more of the fresh apples they purchased for cooking or baking.

In general, there was little variation in the proportion of apples used for cooking or baking by homemakers in various segments of the population; however, comparatively high proportions of homemakers over 50, those in households without children and those living in small households said that they used 75 percent or more of the fresh apples purchased during the past year for cooking and baking (table 46).

Qualities Looked for in Apples for Cooking or Baking

When homemakers choose apples for cooking or baking, color is not as important as it is when they choose apples for eating raw, nor is there as much agreement among them on preference for a particular color. In a "cooking" apple, the homemaker is more concerned with getting a juicy one that is firm but not hard, tart, of medium size, without blemishes or bruises.

The following qualities were selected most often for cooking or baking apples:

			(Q	ua	ali	iti	ie	S										1		Percent
Juicy																					
No blemishes																					
Medium size. No bruises																					
110 bi discs					۰						•		•	•	•	٠		•	۰	٠	77

Qualities Con.	Percent
Firm, but not hard	47
Tart	43
Hard	27
Part red, part green	25
Green	23
Bright red	23
Sweet	20
Variety or kind of apple	25

The variety or kind of apple to use (the only other factor on the list mentioned by as many as 1 in 4), was of as much concern to homemakers when choosing fresh apples for cooking or baking as it was when choosing apples for eating raw.

Preference for color of apples for cooking or baking varied somewhat among regions. In the North Central States, part red, part green, and bright red apples were preferred to a greater extent than green or deep red apples. Green apples were preferred by a majority of the homemakers in the West and by very few in the South (table 42).

Varieties or Kinds of Apples Homemakers Prefer for Cooking or Baking

The majority of homemakers who used apples for cooking or baking indicated that sometimes they bought a certain variety especially for this purpose. A little over one-fourth (27 percent) indicated that they did not buy a special variety. The main reasons for not doing so were "prefer an all-purpose apple," "use whatever is on hand," or "use eating apples whose qualities they prefer" (table 47).

All homemakers who used fresh apples for cooking or baking were asked: "Which variety or kind of apples do you prefer for cooking or baking?" As was true in homemakers' preferences of varieties for eating raw, preferences in varieties to be used for cooking or baking varied considerably from region to region. Winesap or Stayman Winesap most frequently headed the list in the South. McIntosh was the most popular variety in the Northeast, Jonathan in the North Central States, and Pippin was more popular in the West.

Main varieties of apples preferred for cooking or baking	U.S. total	Northeast	North Central States	South	West
]	Percent -	-	
Winesap or Stayman Winesap	21 17 17 4 9	10 39 2 7	15 16 35 * 7	41 3 11 *	12 8 19 30 13
Number of cases	1,930	508	598	574	250

^{*}Less than 1 percent.

See table 43 for further details.

Homemakers' preferences for different varieties of apples were examined in terms of all the qualities they said they look for when choosing fresh apples for cooking or baking. Regardless of the variety they preferred, homemakers looked mainly for apples

that are juicy, unblemished, of medium size, firm but not hard, and tart. There were exceptions, however. For example, homemakers who preferred Delicious or McIntosh apples mentioned tart less frequently as a quality looked for.

Qualities looked for	Winesap or Stayman Winesap	McIntosh	Jonathan	Delicious
		Per	cent	
Juicy	59	73 57 45 49 33 54	72 62 60 64 49 62	73 60 56 52 29 56

See table 40 for further details.

PROBLEMS WITH APPLES

Difficulty in Finding Good Fresh Apples

Homemakers were asked what difficulties they had encountered in purchasing fresh apples for any use during the past year. Only about one in seven (14 percent) mentioned any problems. Most said that they had encountered these problems mainly during the spring and summer. They were also asked if the difficulty occurred in purchasing any special variety or kind of apple. Less than half of those who had difficulty said that it did; no one variety was mentioned by as many as one-fourth (tables 48-49).

Incidence of Disappointment in Apples Bought during the Past Year

Homemakers who had purchased fresh apples during the past year were asked, "Have you been disappointed in apples that you have bought during the past year?" About one in four (28 percent) said that they had been.

Disappointment was expressed by a higher proportion of homemakers in the West than in other regions (table 50).

Those who had been disappointed were asked, "In what ways?"

- 25 percent referred to interior blemishes and deterioration
- 22 percent said the apples were dry
- 21 percent said they were soft, mushy, soggy
- 16 percent said they had no taste, were flat
- 15 percent said they were bruised, blemished
- 13 percent said they were mealy, powdery 11 percent referred to complete spoilage
- 11 percent said they were sour, not sweet
- 10 percent said they were too hard

See table 51 for further details.

When asked where they had bought the apples they did not like, 61 percent of the homemakers cited supermarkets and 21 percent mentioned grocery stores. No other place was mentioned by more than 6 percent of the homemakers (table 52).

The following tabulation shows the various outlets where homemakers purchased apples most often and the percentage who were disappointed in the apples purchased from these outlets.

		Disappointed in apples
	<u>Pe</u>	ercent
Supermarkets	56	61
Grocery stores	23	21
Roadside stands	6	6
Farmers' market	5	4
Orchard, farm	6	2

Obviously, the incidence of purchase from an outlet closely paralleled the proportion of homemakers who expressed disappointment in apples purchased from these outlets. Purchases from orchards or farms seemed to be less disappointing, however too few homemakers mentioned such purchases to be conclusive.

Incidence of Purchasing Substitutes for Fresh Apples

All homemakers who had purchased fresh apples during the past year were asked, "Have you bought something else at any time in the past year when you would have preferred to buy apples?" Only about one in seven homemakers (14 percent) said they had. When asked what they had bought the last time this happened, almost half said they had purchased bananas, and a smaller proportion mentioned oranges. No other fruit was mentioned by as many as a tenth of those who bought substitutes (table 53).

When asked what circumstance led to their buying a substitute, about two-fifths mentioned poor quality--the apples available were either old, dried up, bruised, or just didn't look good. About one-fifth stated that price was a factor (table 54).

APPLESAUCE

INCIDENCE OF PURCHASING PROCESSED APPLESAUCE DURING THE PAST YEAR

All homemakers interviewed, including the 39 homemakers who said they had not bought any fresh fruit during the past year, were asked about their purchases of apple-sauce during the past 12 months. The 71 percent who had purchased it included a relatively high proportion of homemakers living in the Northeast and in metropolitan areas, better educated homemakers, and homemakers in the upper income brackets.

Earlier in the interview, homemakers were asked whether or not they had used fresh apples for making applesauce. The results of both questions revealed that better than 8 in 10 had used some type of applesauce during the past year--36 percent had used both processed and homemade applesauce, almost an equal proportion had used processed only, and 14 percent said they had used only homemade applesauce (table 55).

Purchasers of processed applesauce were asked, "How do you generally use the applesauce you buy?"

- 62 percent said as a side dish with meat
- 42 percent said as a dessert
- 12 percent said in recipes for cake, cookies
- 8 percent said as a garnish on meat
- 5 percent said as a breakfast fruit
- 5 percent said with pancakes

See table 56 for more detailed information.

Purchasers of processed applesauce were also asked, "Which do you prefer, home-made applesauce or the kind you buy in a store?"

- 45 percent said they preferred homemade applesauce
- 36 percent said they preferred processed applesauce
- 19 percent said they had no preference

Preference for homemade applesauce was strongest among homemakers in the Northeast and those in the North Central States (table 57).

As might be expected, the majority of homemakers who had used both processed and homemade applesauce preferred the homemade variety, while the largest proportion of those who had not used any homemade applesauce during the past year preferred the processed.

Homemakers who had --

lised both home-

	made and processed applesauce	Used processed applesauce only
	Percent	Percent
Preferred homemade applesauce	. 19	26 54 20
Number of cases	. 896	851

Homemakers' main reasons for preferring homemade applesauce were that they could flavor it to their own taste, that it had a better taste than processed applesauce, and that it had a fresh taste. Those who preferred processed applesauce gave 'more convenient' as their main reason (table 58).

HOMEMAKERS' OPINIONS ABOUT THE WAY GOOD APPLESAUCE SHOULD LOOK AND TASTE

How should applesauce look and taste? Should it be thick and chunky or thin and smooth? To get this information, all homemakers were asked to describe how "good" applesauce should look and taste.

Homemakers were about equally divided in their taste preferences--27 percent preferred a sweet applesauce and 23 percent wanted one that was not too sweet and not too tart. They also preferred a medium-thick, smooth applesauce that was yellowish or light in color (table 59).

To get as complete a description as possible of color and consistency preferences, homemakers who did not mention them were asked their preferences for these two factors.

About a fourth of the homemakers voluntarily stated a preference for medium-thick applesauce; about one in eight expressed a preference for thick applesauce. When asked directly, equal proportions mentioned these two factors.

On color, the largest proportion of homemakers voluntarily expressed a preference for yellow applesauce; the next highest proportion preferred a light-colored applesauce. When homemakers who did not mention color were asked their preference, the relative positions of the two did not change, but the proportion preferring yellow applesauce was clearly the largest (table 60).

The opinions of homemakers preferring homemade applesauce and those preferring canned applesauce were examined separately.

Basically, the two groups did not differ in what they considered "good" applesauce; however, there were some variations in taste and color preferences. Those who preferred homemade applesauce were more likely to prefer cinnamon or other spices as a seasoning. While homemakers preferred yellow or light-colored applesauce, a large proportion of those who preferred the homemade variety expressed a preference for tan or pink applesauce (table 61).

PROCESSED FRUITS

In order to get a complete picture of the use of noncitrus fruit, one must get information on both fresh and processed fruits.

Homemakers were asked which of nine canned fruits they had purchased during the last year. It was found that:

86 percent said they had bought canned pineapple

86 percent said they had bought canned fruit cocktail or salad

83 percent said they had bought canned peaches

65 percent said pears

43 percent said apricots

36 percent said sweet cherries

34 percent said apples

32 percent said plums or prunes

28 percent said sour cherries

Only 3 percent of the homemakers had not bought any of these canned products.

In general, these products had been purchased by larger proportions of homemakers in the higher income brackets and those with better educations.

In the Northeast, fewer homemakers had bought sour cherries and apples; in the South, smaller proportions had bought fruit cocktail or salad, pears, apricots, and plums or prunes. Purchases of sweet cherries were reported by fewer of the homemakers in the West (table 62).

Homemakers' purchases of canned fruits were compared with their purchases of fresh fruits. Purchases of all canned fruits except pineapple were highest among homemakers who had bought the same fresh fruits during the past year (table 63).

JUICES

Juices, a natural byproduct of fresh fruits, are also of interest in a study such as this. Therefore, homemakers were asked which of four noncitrus juices they had purchased in the past 12 months.

63 percent said they had bought grape juice

62 percent said they had bought pineapple juice

40 percent said they had bought prune juice

38 percent said they had bought apple juice

13 percent said they had bought none of these juices

As with canned fruit, homemakers who purchased the four juices tended to have higher incomes and to be better educated. A relatively larger proportion of homemakers living in the Northeast, in the West, and in large metropolitan areas purchased apple juice. Homemakers living in the Northeast and in metropolitan areas were more likely to purchase prune juice (table 64).

PRUNES

Prunes are well known in American households. More than 7 out of 10 homemakers said they had used either canned prunes, dried prunes or prune juice during the past year; almost 5 in 10 had used at least two forms of prunes; and about 6 in 10 said they had used dried prunes. Over half of the latter group mentioned that they had served dried prunes at least once a month.

6 percent said they served dried prunes more than once a week

8 percent served them once a week

18 percent served them two or three times a month

23 percent served them once a month

44 percent served them less than once a month

Smaller proportions of the younger homemakers said they had used prunes during the past year. Also, this group had used prunes less frequently than the older groups. Among homemakers under 36 years of age, only 47 percent had used prunes; among homemakers 36 and older, 64 percent had used them. Use of prunes at least once a month was reported by 35 percent of those under 36 years of age and from 54 to 64 percent of those 36 and over (tables 65, 66, 67).

Attitudes Toward Prunes

The homemaker's major reason for using prunes is that it has a laxative quality-over 4 out of 10 mentioned this. Reasons related to health were mentioned by 2 users in
10. No other reason was given by as many as 2 out of 10 homemakers (table 68).

Most users could find no fault with prunes--only about 1 in 10 indicated that there was something they did not like about using dried prunes. In answer to the question, "What, if anything, don't you like so well about them?" the only criticisms made by as many as 3 percent were about price, taste, and the presence of pits or seeds (table 69).

Homemakers' main reasons for buying dried prunes were examined in terms of the frequency with which they use them. Homemakers who thought prunes served as a laxative, were good for health, and could be used as a breakfast fruit tended to use them more frequently than other homemakers. As might be expected, those who liked them for variety tended to use them least often (table 70).

Homemakers who said they had not purchased dried prunes during the past year were asked, "How come you don't buy dried prunes?" Many of their reasons were general: "don't care for them," "just don't bother to buy them," "prefer other forms of the fruit." About 2 in 10 commented that they disliked the taste. A small proportion felt that dried prunes were too expensive or said they preferred other fruit (table 71).

RAISINS

The proportion of homemakers in the United States who reported they used raisins in their homes during the past year had not changed since a previous study conducted in 1957. Then, as now, 83 percent of the American homemakers used raisins. Homemakers in the West tended to use raisins more frequently than those in other regions, although the reported incidence of use did not vary significantly. A larger proportion of families with children used raisins; these families also used them more frequently. However, there has been a significant shift in the frequency of use of raisins. In the previous study, 71 percent of the homemakers said they served them once a month or more, contrasted with 63 percent in this study (tables 72 and 73).

³ Hochstim, Esther S. Homemakers Appraise Citrus Products, Avocados, Dates and Raisins. U.S. Dept. Agr. Mktg. Res. Rpt. 243, June 1958.

APPENDIX

SAMPLE DESIGN

The universe represented by the sample consists of homemakers residing in the 48 contiguous states. The homemaker is defined as the person in the household with major responsibility for purchasing and preparing food.

Since a full description of the sample design would take several pages and would be of little interest to most readers, only a few of the key characteristics of the sample will be given. It was a multistage probability sample with appropriate stratification at each level of selection and the use of probabilities proportional to size. The sample design and selection process contained a provision that each household in the population have an equal chance of being in the sample. In other words, the sample was self-weighted.

The three categories of communities for which data are presented in this report correspond to three major strata used in the design of the sample:

Large metropolitan areas: urbanized areas (as defined in the 1960 census) with a population of 1 million or more.

Small metropolitan areas: urbanized areas with a population of less than 1 million and all other urban places of 2,500 or more inhabitants.

Nonmetropolitan areas: towns of less than 2,500 and open country farm and nonfarm population.

SAMPLING ERROR

For unrestricted random samples, the standard deviation of a given proportion is calculated by the formula $\sqrt{\frac{p(1-p)}{n}}$ where 'p' represents the proportion responding, and 'n' represents the sample size. For the type of sample and questions involved in this survey the statistical efficiency is approximately equivalent to unrestricted random samples of half the size. Accordingly, approximate standard deviations of proportions in this study can be derived by using the formula $\sqrt{\frac{2p(1-p)}{n}}$.

The magnitude of the sampling error varies with the size of the percentage being estimated and the number of cases upon which the percentage is based. The tabulation below presents approximations of sampling variability for selected percentages and numbers of cases.

Standard error of estimated percentage

D.4' -4 1	Number of	respon	ndents o	n which	percenta	age is based
Estimated percentage	100	250	500	750	1,000	2,454
		(in	percent	age poi	nts)	
2 or 98	3.07 4.23	1.25 1.95 2.68 3.87 4.46	.89 1.38 1.90 2.74 3.16	.72 1.12 1.55 2.23 2.58	.62 .97 1.34 1.93 2.23	.40 .62 .86 1.24

TABLES

The following detailed tables show the percentage distribution of homemakers who responded to the questions asked in this survey. Except for a few instances where similar questions have been grouped for ready comparison, the tables are arranged in questionnaire order.

The groupings according to size of community were described in the previous section on sample design.

The income categories represent total family income before taxes as reported by the homemakers interviewed. "Upper" includes annual incomes reported as \$7,000 or more, "middle" those from \$4,000 up to \$7,000, "lower" those under \$4,000.

Households are classified according to size as small (one or two members), medium (three or four members), and large (five or more members).

Cases classified by family composition, income, education, age, and other groupings may add to less than the total number of homemakers because of a few unclassified respondents.

Table 1.--All homemakers: "Now will you look at each fruit on this card and tell me which of these fresh fruits have you or your family bought in the past 12 months?"

Cases	t Number	2,454	637 716 742 359	945 676 833	700 807 654	603 519 860 464	791 834 812	1,025	420	851 898 705
Plums or fresh prunes	Percent	99	8 9 4 9 8 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8	78 67 51	80 68 51	56 59 71 75	66 71 59	09 09 275	70	58 71 68
Pine- apple	Percent	29	3 5 5 8 3 5 5 8	39 28 19	38	25 21 30 41	32 32 30	322	28	23 23
Pears	Percent	68	81 63 69 69	58	79	63 77 76	99 23 99	99	99	49 72 89
Peaches	Percent	86	88 84 86 84 84	888	92 86 79	779 88 91	85	889 0	87	\$ \$ \$ \$ \$ \$ \$
Oranges	Percent	06	91 89 87	888	94 91 85	87 90 92	91 92 87	85 91 95	95	93
Nectarines	Percent	39	33 29 52 52	50 36 27	36 29 29	23 44 43 48	37 43 35	35	39	34 434 39
Grapes	Percent	89	88 8 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	900	95 91 81	83 89 92 91	91 83	82 93 94	93	81 93 94
Cherries	Percent	48	70 46 27 54	62 335 335	61 49 32	37 39 53	46 53 43	777	48	41 54 48
Bananas	Percent	96	9 6 6 9	76 96 86	98	93 97 98	97	99	86	98
Apricots	Percent	22	25 19 11 43	29 19 15	26 20 19	20 16 23 28	16 23 26	23 16 23	18	222
Apples	Percent	94	9,6 9,6 8,9	95	97	96 96 96 96	96	90 86	26	89 97
Background characteristics		United States total	Region: Northeast	Size of community: Large metropolitan areas- Small metropolitan areas- Nonmetropolitan areas-	Family income: Upper Middle Lower	Education of homemaker: No high school Some high school High school graduate College	Age of homemaker: Under 36 years 36 - 50 years 0ver 50 years	Family composition: No children	groupsgroups	Size of household: Small Medium Large

 1 Percentages add to more than 100 because some respondents gave more than 1 fruit.

Table 2..-Homemakers who had not purchased fresh fruit in the past 12 months: "Why haven't you bought fresh (FRUIT) in the past year?"

Reasons	Apples	Apricots	Bananas	Cherries	Grapes	Nectarines	Oranges	Feaches	Pears	Pineapple	Flums or fresh prunes
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Have own trees; friends, relatives supply them	52	5	8	11	2.7	П	13	32	36	*	23
Health reasons	15	~	42	7	15	2	21	11	5	7	7
I/we don't like them	7	15	11	11		6	9	9	12	9	15
Prefer other fruits	5	ϖ	11	6	12	12	6	7	7	7	10
Texture reasons	5	7	1	*	1	2	-	2	80	2	2
Too expensive	3	5	00	22	14	10	17	13	6	₩	6
Dislike taste (general)	П	10	∞	4	\neg	Ç	7		4	~	9
Tart; too sour; bitter	Н	7	l l	J		\sim	2	1		100	10
Ripening and spoilage problems	П	C4	8	~	П	*	(*)	8	4	٦	7
Nonavailability	ŀ	22	1 4	12	~	16	2	9	7	7	7
Prefer canned/dried forms	1	۵	-	10	-	1	13	2	5	13	5
Other taste reasons	I I	9	1 1	2	2	m	7	2	m	2	H
Not familiar with fruit	8	5	(Н	7	33	Н	Н	*	7	٢٦
Canned/dried fruit tastes better	-	2	1	٦	1	1	ŀ	٦	г	₹0	_
Dislike skin, fuzz	!	2	1	1	Н	(*)	1	9	*	1	7
Hard to prepare	1	7	-	5	(*)	*	~	2	-	42	1
Dislike pits, seeds, core	-	*	1	4	7	1	1	-	7	1	*
Messy to eat	1 1	(*)	t t	(*)	П	*	9	2	1	*	П
All other reasons	1	H	1	H	٦	*	1	1	*	2	*
Not ascertained	2	2	6	47	7	5	7	2	2	М	7
Number of cases	108	1,886	2	1,247	236	1,471	204	311	738	1.703	802

 $^{\rm 1}$ Percentages'may add to more than 100 because some respondents gave more than 1 reason. *Less than 1 percent.

Table 3.--Homemakers who had purchased fresh fruit in the past 12 months: "Would you say the amount of (FRUIT) you have bought in the past 12 months is more, less, or about the same as the amount bought, say, 5 years ago?"

		Apples	les			Bananas	nas			Grapes	ses			Peac	Peaches	
Background characteristics	More	Less	About the same	Cases	More	Less	About the same	Cases	More	Less	About the same	Cases	More	Less	About the same	Cases
	Percent	Percent	Percent	Number	Percent	Percent	Percent	Number	Percent	Percent	Percent	Number	Percent	Percent	Percent	Number
United States total	41	4	42	7,05,5	36	9	24	7,351	9	77	200	5,179	82	9T	96	2,104
Region: Northeast	41 36 45	13	46 339 51 43	596 675 715 321	3,11	12 11 8	51 48 61 54	605 688 711 347	22 33	2222	58 59 59	569 636 660 314	28 32 24 24	13 21 13 15	59 47 56	566 598 639 301
Size of community: large metropolitan areas	43	15	42	891	39	70	51	889	*	12	54	853	30	77	56	820
Small metropolitan areas Normetropolitan areas	44	25	41	640	33	10	54	646	31	11	58	605	30	15	55	595
'amily income: Upper	7, 4, 4, 5, 70, 40	o 11 8	7,40	680 755 596	777 777 777 777 777 777	10	46 50 61	687 788 598	20338	110	522	666 732 530	34	13	53 62	646 693 517
Education of homemaker: No high school Some high school High school graduate College	25 4 4 4 4 4 4 8 9 9 5	20 10 17	24 4 8 8 8 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8	540 498 818 444	21 42 42	44 88 8 E.L.	65 50 4 50 7	558 497 452	18 34 34 34	15	67 60 54 54	498 461 791 423	16 34 33 33	20 17 17	49 60 80 80 80	474 443 759 423
Age of homemaker: Under 36 years 36 - 50 years Over 50 years	39	23	30 47	765 797 730	32 77	10	35 58 69	768 813 754	50 27 11	12	43	719 767 677	50 25 10	8 15 24	75	675 747 665
No children	21 66 41	23	56 88 88 88	918 310 672	17 68 33	17	57	943	27	19 6	66 41 63	843 297 650	14 52 24	23 6	6 4 6 3	836 283 619
groups	99	m	31	407	62	CV.	36	413	49	2	746	389	67	6	42	366
Size of household: Small	21 44 59	24	3 4 5 5	753 869 685	17 38 54	20 00 00	65 54 41	775 881 695	15 31 44	11 7	66 58 49	690 831 658	15 28 43	24	61 60 47	689

Reasons	Apples	Bananas	Grapes	Feaches
	Percent	Percent	Percent	Percent
Family is larger	42	41	42	42
Children are older, old enough to eat them	39	39	36	32
Use them for packed lunches, snacks	9	9	7	5
We bake/can/freeze more	7	2	1	12
Health reasons	6	8	6	5
We prefer them, eat more of them	5	5	8	6
Availability	4	2	5	4
I/we have found new/more uses for them	3	7	1	3
They are less expensive	3	6	2	3
They are a substitute for sweets	2	2	2	2
Like the taste	2	1	3	1
Can afford them now	2	1	1	2
They are easy to eat/serve; children can handle them	1	2	3	1
Setter quality (general)	1	1	2	2
We entertain more	1	1	1	(*)
They are juicier	1	(*)	1	1
All other reasons	2	1	1	2
Not ascertained	1	1	1	2
Number of cases	940	846	648	590

 $^{^{\}rm 1}$ Percentages may add to more than 100 because some respondents gave more than 1 reason. * Less than 1 percent.

Table 5.--Homemakers who indicated they had purchased less (fruit) in the past year than 5 years ago: "Why are you buying less (FRUIT) now?"1

Reasons	Apples	Bananas	Grapes	Peaches
	Percent	Percent	Percent	Percent
Family is smaller	57	58	46	36
They're too expensive	9	7	12	13
We are eating less; don't care for them as much	8	9	12	6
Health reasons	6	10	7	4
Don't cook/can/freeze them	6	1	2	23
Have own trees; friends, relatives supply them	6		5	4
The children are older and don't like them as much	4	9	3	2
Fewer meals are eaten at home	4	4	3	3
They have fewer uses	2	4	3	1
Dislike the taste	2	1	2	4
Poor quality (general)	2	(*)	4	8
Ripening problems	1	2	2	6
Nonavailability	1		5	10
We buy them canned	(*)	(*)		4
All other reasons	1	(*)	1	(*)
Not ascertained	(*)	1	3	2
Number of cases	321	245	266	326

 $^{^{\}rm 1}$ Percentages may add to more than 100 because some respondents gave more than 1 reason. * Less than 1 percent.

Table 6.--Homemakers who had purchased fresh fruit in the past 12 months:
"During which season of the year do you buy the greatest amount of fresh
(FRUITS)? In what other seasons do you buy fresh (FRUIT)?"

Fresh fruits	Spring	Summer	Fall	Winter	All year around	No other season	Cases
Apples	Percent	Percent	Percent	Percent	Percent	Percent	Number
Greatest amount Other purchases Total	2 45 47	7 41 48	61 20 81	28 48 76	10 10	13 13	2,307 2,307 2,307
Bananas ¹ Greatest amount Other purchases Total	5 32 37	17 25 42	17 29 46	20 24 44	44 44	 6 6	2,351 2,351 2,351
Grapes 1 Greatest amount Other purchases Total	2 14 16	39 16 55	42 27 69	14 28 42	7 7	30 30	2,179 2,179 2,179
Peaches¹ Greatest amount Other purchases Total	4 11 15	81 7 88	15 17 32	1 4 5	1 1	65 65	2,104 2,104 2,104
Pears¹ Greatest amount Other purchases Total	2 8 10	41 11 52	47 17 64	8 19 27	2 2	50 50	1,677 1,677 1,677
Plums or fresh ² prunes Greatest amount Other purchases Total	4 8 12	68 8 76	21 15 36	3 7 10	2 2	 63 63	1,613 1,613 1,613

¹ Percentages may add to more than 100 because some respondents had purchased fruit in more than one season.

Percentages do not add to 100 because some respondents did not indicate what season they purchased the "greatest amount" in.

Table 7.--Homemakers who had purchased fresh apples in the past 12 months:
"What amount of fresh <u>apples</u> do you usually buy at a time during the season when greatest amount purchased? About how often do you buy apples in this quantity during that season?"

Background	A:	pple purc	hase leve	ls ²	Cagos
characteristics	High	Medium	Low	No answer	Cases
	Percent	Percent	Percent	Percent	Number
United States total	32	42	24	2	2,307
Region: Northeast North Central South West	31	45	22	2	596
	33	40	26	1	675
	31	42	25	2	715
	32	42	23	3	321
Size of community: Large metropolitan areas Small metropolitan areas Nonmetropolitan areas	27	46	26	1	891
	33	41	24	2	640
	35	39	24	2	776
Family income: Upper Middle Lower	36	45	18	1	680
	33	43	22	2	755
	26	38	33	3	596
Age of homemaker: Under 36 years 36 - 50 years Over 50 years	31	45	23	1	765
	38	42	19	1	797
	25	41	32	2	730
Family composition: No children	21 23 39 49	41 46 45 38	35 30 15 12	3 1 1	918 310 672 407
Size of household: Small Medium Large	18	40	39	3	753
	31	4 7	21	1	869
	47	39	13	1	685

¹ The purchase levels are approximate, since they are based on homemakers' memories of the amounts they normally buy at a time and on the amounts they buy each time. Also the official dates of the seasons were not mentioned to the homemakers, who therefore made their own interpretations of them.

² The total amounts homemakers reported they had purchased were grouped

roughly into thirds.

Table 8.--Homemakers who had purchased fresh bananas in the past 12 months:
"What amount of fresh bananas do you usually buy at a time during the season when greatest amount purchased? About how often do you buy bananas in this quantity during that season?"

Packground		Banana :	purchase	levels	
Background characteristics	High	Medium	Low	No answer	Cases
	Percent	Percent	Percent	Percent	Number
United States total	33	34	31	2	2,351
Region: Northeast North Central South West	33	37	28	2	605
	32	34	32	2	688
	32	35	32	1	711
	35	29	32	4	347
Size of community: Large metropolitan areas Small metropolitan areas Nonmetropolitan areas	35 33 29	35 33 34	28 31 35	2 3 2	889 646 816
Family income: Upper Middle Lower	36	35	27	2	687
	35	35	28	2	788
	27	33	38	2	598
Age of homemaker: Under 36 years 36 - 50 years Over 50 years	36	34	28	2	768
	39	32	28	1	813
	23	36	38	3	754
Family composition: No children	19	35	43	3	943
	30	38	31	1	313
	41	32	25	2	682
	52	30	16	2	413
Size of household: Small Medium Large	16	36	45	3	7 7 5
	33	36	30	1	8 8 1
	50	30	18	2	695

¹ See footnotes to table 7.

Table 9.--Homemakers who had purchased fresh grapes in the past 12 months:
"What amount of fresh grapes do you usually buy at a time during the season when greatest amount purchased? About how often do you buy grapes in this quantity during that season?"

Background	Gr	ape purc	hase leve	els	
characteristics	High	Medium	Low	No answer	Cases
	Percent	Percent	Percent	Percent	Number
United States total	36	31	30	3	2,179
Region: Northeast North Central South West	44	30	24	2	569
	31	34	33	2	636
	31	29	37	3	660
	48	27	21	4	314
Size of community: Large metropolitan areas Small metropolitan areas Nonmetropolitan areas	44	31	23	2	853
	36	32	30	2	605
	28	28	39	5	721
Family income: Upper Middle Lower	44	32	23	1	666
	35	30	32	3	73 2
	29	29	38	4	530
Age of homemaker: Under 36 years 36 - 50 years Over 50 years	37	31	30	2	719
	41	30	27	2	767
	32	31	33	4	677
Family composition: No children	30	31	36	3	843
	33	32	33	2	297
	42	31	25	2	650
	45	28	24	3	389
Size of household: Small Medium Large	28	33	36	3	690
	37	31	30	2	831
	45	27	25	3	658

¹ See footnotes to table 7.

Table 10.--Homemakers who had purchased fresh peaches in the past 12 months:
"What amount of fresh <u>peaches</u> do you usually buy at a time during the season when greatest amount purchased? About how often do you buy <u>peaches</u> in this quantity during that season?"

Background	F	each pur	chase leve	els	
characteristics	High	Medium	Low	No answer	Cases
	Percent	Percent	Percent	Percent	Number
United States total	25	41	31	3	2,104
Region: Northeast North Central South West	22	47	29	2	566
	27	40	31	2	598
	28	39	29	4	639
	21	38	36	5	301
Size of community: Large metropolitan areas Small metropolitan areas Nonmetropolitan areas	23	45	30	2	820
	25	40	32	3	595
	28	38	29	5	689
Family income: Upper Middle Lower	25	48	26	1	646
	26	39	31	4	693
	24	38	35	3	517
Age of homemaker: Under 36 years 36 - 50 years Over 50 years	22	39	36	3	675
	27	46	24	3	747
	26	39	31	4	665
Family composition: No children Children under 6 only Children 6-17 only Children in both age groups	21	42	34	3	836
	17	39	41	3	283
	31	42	24	3	619
	33	42	23	2	366
Size of household: Small Medium Large	18	41	38	3	689
	25	42	30	3	792
	34	41	22	3	623

¹ See footnotes to table 7.

Table 11.--Homemakers who had purchased fresh pears in the past 12 months:
"What amount of fresh pears do you usually buy at a time during the season when greatest amount purchased? About how often do you buy pears in this quantity during that season?"

Background	Р	ear purc	hase leve	ls	
characteristics	High	Medium	Low	No answer	Cases
	Percent	Percent	Percent	Percent	Number
United States total	35	28	31	6	1,677
Region: Northeast North Central South West	39 39 28 36	29 29 27 26	30 28 36 29	2 4 9	518 448 462 249
Size of community: Large metropolitan areas Small metropolitan areas Nonmetropolitan areas	37	31	29	3	729
	34	27	35	4	465
	35	24	30	11	483
Family income: Upper Middle Lower	38	31	28	3	551
	36	28	31	5	543
	34	25	33	8	396
Age of homemaker: Under 36 years 36 - 50 years Over 50 years	33	28	35	4	519
	38	30	27	5	608
	36	26	31	7	535
Family composition: No children Children under 6 only Children 6-17 only Children in both age groups	32	27	35	6	675
	31	28	37	4	216
	40	28	25	7	509
	39	29	27	5	277
Size of household: Small Medium Large	30	26	38	6	548
	36	29	30	5	647
	42	29	24	5	482

¹ See footnotes to table 7.

Table 12.--Homemakers who had purchased fresh plums or prunes in the past 12 months: "What amount of fresh plums or fresh prunes do you usually buy at a time during the season when greatest amount purchased? About how often do you buy plums or fresh prunes in the quantity during that season?"

Background	Plums	or fresh	prune pu	rchase le	vels
characteristics	High	Medium	Low	No answer	Cases
	Percent	Percent	Percent	Percent	Number
United States total	36	36	21	7	1,613
Region: Northeast North Central South West	44	35	18	3	524
	35	36	22	7	482
	22	39	28	11	363
	39	36	14	11	244
Size of community: Large metropolitan areas Small metropolitan areas Nonmetropolitan areas	43	37	15	5	736
	31	38	25	6	451
	28	33	27	12	426
Family income: Upper Middle Lower	43	34	18	5	556
	35	38	20	7	547
	28	39	23	10	337
Age of homemaker: Under 36 years 36 - 50 years Over 50 years	37	33	24	6	526
	39	37	19	5	593
	29	40	21	10	480
Family composition: No children	28	40	24	8	613
	35	34	26	5	209
	41	37	15	7	496
	42	31	21	6	295
Size of household: Small Medium Large	26	40	26	8	497
	37	37	20	6	636
	44	32	17	7	480

¹ See footnotes to table 7.

Table 13.--Homemakers' fresh apple purchase levels of, analyzed by their other fruit purchase levels

Other fresh fruit	Apple purchase levels					
purchase levels	High	Medium	Low			
Bananas	Percent	Percent	Percent			
High	54	30	13			
Medium	28	41	31			
Low	17	28	54			
Not ascertained	1	1	2			
Number of cases	720	958	542			
	Percent	Percent	Percent			
Grapes						
High	50	40	14			
MediumLow	28	31	34			
Not ascertained	20	27	49			
Number of cases	680	912	494			
	Percent	Percent	Percent			
Peaches High	43	21	9			
Medium	38	21 49	32			
Low	16	28	56			
Not ascertained	3	2	3			
Number of cases	651	892	476			
	Percent	Percent	Percent			
Pears						
High	49	37	14			
Medium	25	32	28			
Not ascertained	23	28 3	50 8			
			0			
Number of cases	542	733	345			
	Percent	Percent	Percent			
Plums, fresh prunes						
High	47	38	15			
Medium	31 17	39 18	42 34			
	5	5	9			
Not ascertained						

Table 14.--Homemakers who had purchased fresh fruit in the past 12 months:
"Suppose you were the manager of a store and wanted to get people to buy more of these fresh fruits. What ways can you think of that might get your customers to buy more?"

Suggestions	United States total
	Percent
Display high quality fresh fruit	46
Have attractive eye-catching displays	28
Lower prices	24
Have clean counters/fruit	13
Run sales/specials	12
Advertise	11
Put in prominent position	7
Display loose fruit	6
Display, stack fruit neatly	6
Provide recipes	5
Give samples of less well known fruit	4
Give wide selection/variety	4
Stress health	4
Prepackage the fruit	4
Have tempting, appetizing displays	3
Miscellaneous service reasons	2
Keep fruit moist	1
Sell ripe fruit, no green fruit	1
Provide full displays	1
Oon't allow handling	1
Sell bruised/less desirable fruit for less	1
All other suggestions	6
No suggestions	2
Not ascertained	4
Number of cases	2,415

¹ Percentages add to more than 100 because some respondents gave more than one suggestion.

Table 15.--Homemakers who had purchased fresh fruit in the past 12 months: "What kind of fresh fruit did you buy last?" 1

Background characteristics	Apples	Bananas	Oranges	Grapes	Grapefruit	Tangerines	Pears	All other ²	Cases ³
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Number
United States total	61	57	28	20	8	8	7	5	2,410
Region: Northeast North Central South West	61 56 66 63	54 64 54 53	32 25 28 28	28 19 16 15	9 10 6 8	12 8 6 5	13 5 4 6	6 4 5 9	624 707 726 353
Size of community Large metropolitan areas Small metropolitan areas Nonmetropolitan areas	68 59 56	56 60 55	32 26 25	20 20 19	9 10 6	11 7 6	11 5 3	7 4 5	923 659 828
Family income Upper Middle Lower	68 58 60	56 62 52	31 27 24	21 19 20	11. 7 5	13 7 4	10 5 5	6 3 6	697 802 628
Employment of homemaker Full time Part time Not employed	64 58 61	52 60 58	29 30 27	21 23 19	8 7 9	8 7 8	6 12 6	5 6 5	526 233 1,651
Education of homemaker No high school Some high school graduate College	58 62 62 64	56 56 59 54	26 26 30 28	19 20 19 21	6 5 8 16	5 8 9	6 5 7 9	4 4 5 9	580 513 852 458
Age of homemaker Under 36 years 36 - 50 years Over 50 years	66 62 56	59 57 55	29 31 24	16 21 22	5 9 10	9 9 5	6 7 7	4 6 5	783 825 785
Family composition No children Children under 6 only Children 6-17 only Children in both age groups-	57 62 63 69	52 61 59 61	25 30 28 33	22 17 20 15	10 5 8	6 6 10 12	7 5 8 5	6 3 6 4	985 318 689 418
Size of household Small	56 62 66	51 59 61	24 29 31	21 20 18	10 8 7	6 9 10	7 7 6	5 6 5	816 892 702

Percentages add to more than 100 because some homemakers bought more than one fruit last time.
None of these fruits was bought by more than 1 percent of the homemakers.
The respondents could not recall what fruit they had purchased last time.

Table 16.--Homemakers who had purchased fresh fruit in the past 12 months: "What kind of fresh fruit did you buy last? Which one of these statements comes closest to describing how you decided to buy (FRUIT)?"

	433	Fresh fruits purchased last time								
How decision was made to buy specific fruit	All fruits	Apples	Oranges	Bananas	Grapefruit	Pears	Grapes	Tangerines	All other fruits	
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
Planned to buy this fruit before entering the store	62	68	67	63	61	51	46	40	52	
Planned to buy some kind of fruit, but decided on this kind in the store	24	18	22	23	27	41	37	46	27	
Didn't plan to buy fruit ahead of time; decided to buy this kind in the store-	12	12	9	13	9	7	14	11	19	
Not ascertained	2	2	2	1	3	1	3	3	2	
Number of cases	4,685	1,479	675	1,368	199	165	474	197	128	

Table 17.--Homemakers who had purchased fresh fruit in the past 12 months: Summary of when decision to purchase specific fruits bought last time was made

When decision was made	United States total	Northeast	North Central	South	West
	Percent	Percent	Percent	Percent	Percent
Planned to buy all fruits purchased before entering the store	53	60	47	53	50
Planned to buy some of the fruits purchased, and bought others on impulse	16	16	20	14	15
Planned to buy some kind of fruit, but decided on each kind in the store	14	13	14	13	17
Didn't plan to buy any fruit ahead of time	15	9	18	17	16
Not ascertained	2	2	1	3	2
Number of cases	2,410	624	707	726	353

Table 18.--Homemakers who had purchased fresh fruit in the past 12 months: "What kind of fresh fruit did you buy last? Did you buy (FRUIT) loose or already in some kind of bag or container?"

Total fruits	United States total ¹	Loose	Packaged	No answer	Cases
	Percent	Percent	Percent	Percent	Number
Apples	61	59	40	1	1,479
Bananas	57	89	9	2	1,368
Oranges	28	64	35	1	675
Grapes	20	77	21	2	474
Grapefruit	8	59	37	4	199
Tangerines	8	78	21	1	197
Pears	7	79	21	(*)	165
All other fruits	5	72	20	8	128

 $^{^{1}}$ United States total adds to more than 100 because some homemakers bought more than one fruit the last time.

Table 19.--Percentage distribution of how fruit was purchased by homemakers "last time"

How fruit was bought "last time"	United States total	Northeast	North Central	South	West
	Percent	Percent	Percent	Percent	Percent
I.oose	61	53	51	66	82
Packaged	16	21	19	15	6
Some loose and some packaged	21	25	27	17	10
Not ascertained	2	1	3	2	2
Number of cases	2,410	624	707	726	353

^{*}Less than 1 percent.

Table 20.--Homemakers who had purchased fresh fruit in the past 12 months:
"In general, would you like to buy fresh fruit that is already in some kind of bag or container, or would you rather buy it loose?"

Background characteristics	Loose	Packaged	No preference	Cases
	Percent	Percent	Percent	Number
United States total	75	16	9	2,415
Region: Northeast North Central South West	70	18	12	625
	72	20	8	709
	74	16	10	728
	89	4	7	353
Size of community: Large metropolitan areas Small metropolitan areas Nonmetropolitan areas	76	14	10	923
	77	14	9	663
	70	20	10	829
Family income: Upper Middle Lower	78	13	9	697
	75	16	9	804
	70	20	10	630
Employment of homemaker: Full time	75	15	10	529
	72	18	10	233
	75	16	9	1,653
Education of homemaker: No high school Some high school High school graduate College	70	18	12	582
	75	15	10	514
	74	17	9	853
	79	14	7	459
Age of homemaker: Under 16 years 36-50 years Over 50 years	73	19	8	785
	75	15	10	825
	76	14	10	788
Family composition: No children Children under 6 only Children 6-17 only Children in both age groups	77	13	10	990
	70	22	8	318
	76	15	9	689
	70	20	10	418
Size of household: Small Medium Large	79	12	9	819
	75	15	10	894
	69	21	10	702

Table 21.--Homemakers who had purchased fresh fruit in the past 12 months and preferred to buy it <u>loose</u>: "Are there any fresh fruits you don't like to buy this way? Which ones?" 1

Preferences	Homemakers who prefer to buy fresh fruit loose
	Percent
PREFER TO BUY ALL KINDS LOOSE	89
PREFER TO BUY SOME KINDS PACKAGED	10
Apples	2
Grapes	2
Oranges	2
Strawberries	2
Bananas	1
Cherries	1
Grapefruit	1
All other fresh fruits	2
NOT ASCERTAINED	1
Number of cases	1,800

 $^{^{1}}$ Percentages add to more than the group total because some respondents named more than 1 fruit.

Table 22.--Homemakers who had purchased fresh fruit in the past 12 months and preferred to buy fresh fruit packaged: "Are there any fresh fruits you don't like to buy this way? Which ones?"

Preferences	Homemakers who prefer to buy fresh fruit packaged
	Percent
PREFER TO BUY ALL KINDS PACKAGED	58
PREFER TO BUY SOME KINDS LOOSE	40
Bananas	15
Grapes	12
Peaches	8
Oranges	5
Pears	3
Apples	2
Grapefruit	2
Plums, fresh prunes	2
Cherries	1
Strawberries	1
All other fresh fruits	4
NOT ASCERTAINED	2
Number of cases	385

¹ Percentages add to more than their group total because some respondents named more than 1 fruit.

Table 23.--Homemakers who had purchased fresh fruit in the past 12 months; "What are the advantages of buying fresh fruit loose?" 1

Advantages of buying fresh fruit loose	United States total	Homemakers who prefer to buy loose fruit	Homemakers who prefer to buy packaged fruit	Homemakers who have no preference
	Percent	Percent	Percent	Percent
You get no spoiled or bruished fruit	54	59	37	39
fou can get the number you want	31	33	28	23
fou can choose the ones you want	29	30	25	35
ou can get the size you want	13	14	7	10
You can test for firmness and ripeness	8	8	6	5
t is fresher	8	10	2	3
t is less expensive	7	6	11	9
ou can get the degree of ripeness you want	6	6	5	4
t is more attractive	1	2	1	1
Tou can see the color	1	1	(*)	1
ll other answers	1	1	1	1
here are no advantages	4		16	7
ot ascertained	1	(*)	2	5
Number of cases	2,415	1,800	385	230

 $^{^{1}}$ Percentages add to more than 100 because some respondents gave more than 1 advantage. * Less than 1 percent.

Table 24.--Homemakers who had purchased fresh fruit in the past 12 months: "What are the advantages of buying fresh fruit in some kind of bag or container?"1

Advantages of buying fresh fruit packaged	United States total	Homemakers who prefer to buy packaged fruit	Homemakers who prefer to buy loose fruit	Homemakers who have no preference
	Percent	Percent	Percent	Percent
It's time saving	28	42	24	41
It is not handled	14	32	9	17
It is more sanitary	10	25	7	9
t is easy to pick up	9	14	8	16
t is less expensive	9	11	9	13
t is easy to carry	6	8	6	6
t is easy to store	5	9	4	6
t is protected	4	9	3	6
t is more convenient (general)	4	5	4	5
t is already priced	3	8	2	3
t has a clear transparent bag	3	7	1	5
It looks inviting	2	6	1	2
it keeps fresher	2	6	1	1
Setter choice and quality	1	3	1	1
It is the right amount for small family	1	2	1	2
it has a reusable container	1	1	(*)	
ll other answers	1	1	(*)	(*)
here are no advantages	36	4	46	18
lot ascertained	1	1	1	4
Number of cases	2,415	385	1,800	230

¹ Percentages may add to more than 100 because some respondents gave more than 1 advantage. *Less than 1 percent.

Table 25.--Homemakers who had purchased fresh fruit in the past 12 months: "Here is a list of statements which some people have made about fresh fruits. Which of these statements do you feel are especially true about (each fruit)?"1

Statements selected	Apples	Bananas	Grapes	Peaches	Pears	Plums or fresh prunes
Positive	Percent	Percent	Percent	Percent	Percent	Percent
Good for health	93 69 64 73 88	75 79 79 76 76 12 12	25 64 50 64 50 50 50 50 50 50 50 50 50 50 50 50 50	223 232 233 233 233 233 233 233 233 233	% % % % % % % % % % % % % % % % % % %	20 35 35 44 20 20 20 20 20
Negative						
Often bruised, blemished	(*) (*) (*)	(*) (*) (*)	00 00 00 00 00 00 00 00 00 00 00 00 00	45 45 10 18 43 43	26 10 13 13 13 13 13	20 20 20 20 20 20 20 20 20 20 20 20 20 2
Number of cases	2,415	2,415	2,415	2,415	2,415	2,415

1 Percentages add to more than 100 because some respondents selected more than one statement. * Less than 1 percent.

Table 20.--Homemakers who had purchased fresh fruit in the past 12 months and who selected positive statements, by their fresh fruit purchase levels1

Printips and levels of Cool Coo					Positive	e statements			
Percent Percent Fercent 4.8 4.1 3.9 4.2 3.9 4.2 3.9 4.2 3.9 4.2 3.9 4.2 3.9 4.2 3.9 4.2 </th <th>Fruits and levels of purchase</th> <th>Good for health</th> <th>Good for snacks and packed lunches</th> <th>Can be used many ways</th> <th>Reasonably priced when in season</th> <th>Can buy ready to use without further ripening</th> <th>Good</th> <th>Low in calories</th> <th>Cases 2</th>	Fruits and levels of purchase	Good for health	Good for snacks and packed lunches	Can be used many ways	Reasonably priced when in season	Can buy ready to use without further ripening	Good	Low in calories	Cases 2
93 91 88 67 67 68 68 73 66 75 67 73 68 75 75 61 75 75 75 75 75 75 75 75 75 75 75 75 75		Percent	Percent	Percent	Percent	Fercent	Percent	Percent	Number
95 99 4 87 73 66 66 75 67 96 67 973 973 974 975 975 975 975 975 975 975 975 975 975		93	91	86	69	29	43	38	2,415
93 89 <td< td=""><td></td><td>95</td><td>97</td><td>87</td><td>73</td><td>Q0 \$49</td><td>78</td><td>41</td><td>728</td></td<>		95	97	87	73	Q0 \$49	78	41	728
75 79 63 56 48 112 118 118 15 15 15 15 15 15 15 15 15 15 15 15 15		50 g	± 00 00 00 00 00	98.7	99	9999	38	33.	790
7.5	1 1 1 1	0 1	00 2		0 \	0 (0 0	7 1	001
7.5 814 6.7 5.6 4.8 1.3 1.6 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8		5 8	0, 6	63	20	\$ 50	27	97	2,415
73 75 75 56 20 27 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15		6/	2 20	66	26	φ α	4 C	2 4	, 69 108
39 44 28 20 27 5 9 73 70 64 26 48 59 22 27 73 70 64 26 48 59 22 27 74 68 28 28 41 22 28 27 73 66 73 66 46 30 22 28 75 61 63 57 41 22 28 75 61 63 57 41 22 28 75 61 63 57 41 22 22 61 63 57 41 22 23 77 56 55 47 36 22 23 74 68 61 23 34 34 36 22 28 74 68 29 37 42 44 20 22 <		73	75	57	56	50	12	13	732
70 64 26 48 59 22 27 74 68 28 27 61 25 27 74 68 28 28 52 28 68 62 25 41 25 26 73 58 62 25 41 23 22 78 66 73 66 46 30 24 75 61 63 57 41 23 22 72 56 55 47 37 19 18 75 61 20 35 47 37 22 23 61 23 34 34 36 22 22 67 61 23 36 22 22 67 61 23 36 22 22 66 49 45 30 20 22 67 61	None	39	777	28	20	27	5	0	\$
73 70 27 57 61 25 28 74 68 28 28 52 63 22 28 73 62 25 41 59 22 28 73 66 73 66 46 30 22 28 73 66 73 66 46 30 22 28 75 61 63 57 41 23 22 23 72 56 55 47 37 19 18 74 68 61 30 34 22 22 68 61 30 34 36 22 22 74 68 23 36 22 22 67 61 23 36 22 22 74 68 29 24 30 20 20 86 51 29 24	A GRAPES - TOTAL	70	64	26	78	56	22	27	2.415
74 68 28 52 63 22 28 68 62 25 41 59 20 26 73 58 62 25 41 59 20 26 78 66 73 66 46 30 24 75 61 63 57 41 22 22 75 61 63 57 41 22 22 72 56 55 47 37 19 18 68 61 30 34 34 22 23 68 61 30 34 36 22 24 67 68 29 33 34 20 22 66 51 20 24 30 20 22 75		73	70	27	57	61	25	27	795
68 62 25 41 59 20 26 73 58 62 25 41 24 20 20 75 61 63 73 66 46 30 24 75 61 63 57 41 22 23 75 61 63 57 41 22 23 74 68 61 30 34 34 22 23 74 68 61 30 34 34 22 23 74 68 29 37 36 22 23 75 61 23 30 34 20 22 67 61 23 30 34 20 22 75 68 29 37 34 44 20 86 51 20 22 22 22 22 86 52	5 AC CO SC CO NA CO IN 15 CO ME LA CO IN 15 ME ME ME ME TO CA PARENT	7/4	68	28	52	63	22	28	699
57 41 24 25 43 17 21 73 58 02 53 41 23 22 78 66 73 66 46 30 24 75 61 63 57 41 22 23 68 61 30 34 34 22 68 61 30 34 36 22 28 75 72 38 45 36 22 28 66 51 23 30 34 20 20 66 51 20 35 38 44 20 66 51 20 35 38 44 20 66 51 20 35 38 44 20 67 68 24 50 41 47 23 66 51 18 37 41 47 23 67 68 24 50 41 47 23 68 61 18 37 41 17		68	62	25	41	53	20	26	658
73 58 02 53 41 23 22 75 61 63 57 41 22 23 72 56 55 47 37 19 18 72 56 55 47 37 19 18 72 56 55 47 37 19 18 73 61 30 34 36 22 28 74 68 29 37 36 22 28 75 61 23 37 36 22 28 75 61 23 37 36 22 28 75 61 23 36 22 28 75 61 23 36 22 28 75 61 23 24 30 20 75 68 24 30 24 44 75 68 24 50 41 47 23 86 61 18 37 41 47 23 71 52 18 31 42 43 41 71 52 18 31 <	None	27	41	24	25	43	17	21	236
78 66 73 66 46 30 24 75 61 63 57 41 22 23 72 56 55 47 37 19 18 61 44 50 35 36 22 23 74 68 61 23 34 34 22 24 75 72 38 45 36 29 26 67 61 23 30 34 20 20 66 51 20 35 38 44 20 66 51 20 35 38 44 20 66 51 20 35 38 44 20 66 51 18 37 41 47 23 67 68 24 50 41 47 23 68 22 18 31 42 18 75 68 22 18 31 42 18 75 68 22 18 31 42 18	- TOTAL	73	58	02	53	77	23	22	2,415
75 61 63 57 41 22 23 72 56 55 47 37 19 18 61 44 50 35 36 22 21 68 61 23 34 34 22 24 74 68 29 37 36 29 26 67 61 23 30 34 20 20 66 51 20 35 36 20 20 66 51 20 35 38 44 20 66 51 20 35 38 44 20 66 51 20 35 38 44 20 66 51 20 35 38 44 20 67 68 24 50 41 47 20 68 24 50 41 47 20 69 61 18 31 42 41 17		78	99	73	99	97	30	24	532
72 56 55 47 37 19 18 61 44 50 35 36 22 21 68 61 30 34 34 22 22 75 72 38 45 36 29 26 67 61 23 30 34 20 20 66 51 20 35 38 44 20 66 51 20 35 38 44 20 66 51 20 35 38 44 20 66 51 18 37 41 47 23 69 61 18 37 41 17		75	19	63	25	41	22	23	898
61		72	56	55	47	37	19	18	638
		79	474	20	32	36	22	21	311
75 72 38 45 36 29 26 74 68 29 37 36 22 28 67 61 23 30 34 20 22 66 51 20 35 38 44 20 66 51 20 35 38 44 20 69 61 18 37 41 47 23 75 68 24 50 41 47 23 75 19 22 33 41 17		68	61	30	34	34	22	24	2,415
	1	75	72	38	45	36	29	26	594
67 61 23 30 34 20 22 22 58 49 29 24 30 20 20 20 20 66 51 20 35 34 20 20 20 20 20 20 20 20 20 20 20 20 20		74	68	29	37	36	22	28	697
66 51 20 35 38 44 20 20 20 20 20 20 20 20 20 20 20 20 20	1	29	19	23	30	34	20	22	217
66 51 20 35 38 44 20 21 75 68 24 50 41 45 21 69 61 18 37 41 47 23 71 52 18 31 42 43 18 56 32 19 22 33 41 17	NOMe	58	64	59	24	30	20	20	738
75 68 24 50 41 45 21 69 61 18 37 41 47 23 71 52 18 31 42 43 18 56 32 19 22 33 41 17	PLUMS, FRESH PRUNES - TOTAL	99	51	20	35	38	777	20	2,415
69 61 18 37 41 47 23 71 52 18 31 42 43 18 56 32 19 22 33 41 17	High-	75	68	24	50	41	45	21	575
71 52 18 31 42 43 18 56 32 19 22 33 41 17		69	61	18	37	41	47	23	587
22 33 41 17		77	52	18	31	42	43	100	336
		90	32	6T	22	33	747	1.7	805

¹ Percentages add to more than 100 because respondents selected more than one statement.
² Purchase levels do not add up to the totals because some respondents could not be grouped.

Table 27. -- Homemakers who had purchased fresh fruit in the past 12 months and who selected negative statements by their levels of purchase

	Cases ²	Number	2,415 728 975 564 108	2,415 769 801 732 64	2,415 795 665 658 236	2,415 532 868 638 311	2,415 594 469 517 738	2,415 575 587 336 802
	Messy to eat	Percent	н п н н н	N 0 4 N N	11 10 11 12	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	15 14 17 17	21 20 23 28 18
	Family does not like them	Percent	8448	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	71272	7424g	130 000	15 3 10 34
ts	Difficult to tell when ripe	Percent	m4N40	00000	NN N O 4	18 14 19 20 16	26 26 27 27 27 27	16 128 22 20 10
Negative statements	Hard to find variety liked even in season	Percent	44400		nomrm	₽₽ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩	10 10 10 8	V 80 0 0 10
N	Hard to find good quality even in season	Percent	44000	ろらなら	v440w	10 10 11 10	10 9 13 10	W W W W W
	Spoil	Percent	200011	50 50 50 50 50 50 50 50 50 50 50 50 50 5	24,28,88	44 4 4 4 4 4 4 4 4 4 4 4 4 4 1 0 0 0 0 0	22222	20 26 19 19
	Hard to digest	Percent	88 77 13	1,01114	W W M 4 F	スタエタグ	7 4 6 4 11	$\omega \sqcup \omega = \omega$
	Often bruised, blemished	Percent	18 20 16 18	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1,338	4 4 4 4 4 20 20 20 0	23 7 88 88 88	15 20 17 11
	Fruits and levels of purchase		APPLES - TOTAL	BANANAS - TOTAL	GRAPES - TOTAL	PEACHES - TOTAL	PEARS - TOTAL	PLUMS, FRESH PRUNES - TOTAL High

 $^{\rm l}$ Percentages add to more than 100 because respondents selected more than one statement. $^{\rm l}$ Purchase levels do not add up to the totals because some respondents could not be grouped.

purchase? For example, would you say "can be used many ways" is very important, fairly important, or importance of each of these factors on this card when you are considering which fresh fruits to Table 28. -- Homemakers who had purchased fresh fruit in the past 12 months: "How would you rate the not too important to $you?^{n_1}$

Statements Positive i				
Positive	Very important	Fairly important	Not too important	Cases
	Percent	Percent	Percent	Number
Good for health	88	₩	m	2,415
Reasonably priced when in season	46	14	7	2,415
Good for snacks or packed lunches	99	19	14	2,415
Can buy ready to use without further ripening	45	31	23	2,415
Can be used many ways	94	23	30	2,415
Good laxative	39	24	36	2,415
Low in calories	31	20	47	2,415
Negative				
Often bruised, blemished	78	15	9	2,415
Family does not like them	75	₩	15	2,415
Spoils easily	69	17	13	2,415
Hard to find good quality even in season	97	24	28	2,415
Hard to digest	47	20	32	2,415
Difficult to tell when ripe	37	27	35	2,415
Hard to find variety liked even in season	25	30	43	2,415
Messy to eat	15	22	62	2,415

¹ Percentages sometimes add to less than 100 because some homemakers did not rate the statements.

Table 29..--Homemakers who had used fresh fruit in the past 12 months: "Is there anything you don't like so well about using fresh (FRUIT)?"1

Dislikes	Apples	Apricots	Cherries	Grapes	Nectarines	Peaches	Pears	Pineapple	Plums or fresh prunes
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
No dislikes	89	52	99	\$	09	78	83	37	80
Hard to prepare	4	П	М	Н	*	7	Н	39	П
Too expensive	٦	4	9	H	4	П	٦	9	1
Texture reasons	7	4	*	*	Н	2	72	2	Н
Ripening and spoilage problems	П	2	П	2	rd	7	4	2	C3
Health reasons	Н	2	Н	Н	Н	2	Н	4	2
Dislike taste (general)	*	7	П	*	M	*	Н	٦	C3
I/we don't like them	*	9	2	(*)	~	*	2	П	2
A Tart; too sour; bitter	*	2	4	П	2	Ч	(*)	2	4
Nonavailability	*	5	Н	*	3	П	*	П	Н
Other taste reasons	*	4	Н	(*)	2	*	Н	2	(*)
Prefer other fruits	*	~	Н	*	4	(*)	*	П	1
Prefer canned or dried forms	*	2	23	*	*	(*)	*	7	П
Dislike skin, fuzz	*	2	1	(*)	*)	9	*	*	*
Messy to eat	*	Н	C ₂	Н	Н	4	1	(*)	2
Canned or dried fruit tastes better	*	ч	*)	1	(*)	1	*)	2	*
Dislike pits, seeds, core	*	*	11	0	(*)	Н	*	*	П
Not familiar with fruit	!	4	(*)	*	16	*)	(*)	В	(*)
All other dislikes	*	п	Н	*	(*)	*	*	7	*
Not ascertained	(*)	П	ר	(*)	Н	П	П	7	Н
Number of cases	2,415	2,415	2,415	2,415	2,415	2,415	2,415	2,415	2,415

 $^{^{\}rm l}$ Percentages may add to more than 100 because some respondents gave more than one dislike. * Less than 1 percent.

Table 30.--Homemakers who had used fresh fruit in the past 12 months and who indicated that they had no dislike for the specific fruits 1

Plums or fresh Cases prunes	Percent Number 80 2,415	84 625 777 709 80 728 80 353	83 923 75 663 829	82 697 81 804 77 630	82 582 778 514 81 853 78 459	78 785 81 825 81 788	779 990 778 318 82 689 80 418	79 819
Pineapple fr	Percent Per	37 37 33 37 38 35 37 35 37	41 28 39	39 34	422 322 37	35	3 4 6	0 %
Pears P.	Percent 83	86 77 87 799	8,48	8 8 8 3 2 2	74 8 8 3 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	81 86	\$ 8 8 8 4 0 £ 5	£ £
Peaches	Percent 78	80 777 777	78 72 833	74 78 83	86 77 68	72 76 87	84 72 74 74	83
Nectarines	Percent 60	966 57 58 67	577	5386	5,7,7	57 62 60	59 55 61	52
Grapes	Percent 84	83	¥ 00 80 24 00 80	86	89 87 77	8833	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	φο φο ζΩ Ω
Cherries	Percent 66	78 60 00 77	71 60 65	8997	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	62 66 70	68 61 66 64	0 V 0 V
Apricots	Percent 52	51 47 51 68	51 47 58	77 + 77 12 0 0 07	70 4 70 70 70 80 50 70	46 51 60	56 7,77 7,82 7,82 7,82 7,83 7,83 7,83 7,83 7,83 7,83 7,83 7,83	54
Apples	Percent 89	92 87 92 86	888	06 8 6 0 6 0 6	91 89 86	88 89 91	91 86 89 89	98
Background	United States total	Region: Northeast	Size of community: Large metropolitan areas Small metropolitan areas Nonmetropolitan areas	Family income: Upper	Education of homemaker: No high school	Age of homemaker; Under 36 years	Family composition: No children	Size of household: Small

1 Percentages add to more than 100 because some respondents named more than one fruit.

		Apples			Apricot	ts		Cherrie	S		Grapes		N	lectarin	es
Negative attitudes toward use and/or purchase	Total	Pur- chas- ers	Non- pur- chasers												
		Percen	t		Percer	nt		Percen	it.		Percer	it		Percer	ıt
Have no dislikes	89	90	71	52	82	44	66	81	52	84	85	67	ŧΟ	87	42
Hard to prepare					02		5		9						44
							,		7						
Have own trees, friends or rela- tives supply them			62			5	5		11			27			
Health reasons			18									17			
Texture reasons			6	5		6									
Too expensive				8		10	14		24			15	8		12
I/we don't like them			8	14		18	6		12			12	6		10
Dislike taste - (general)				11		14			5				5		8
Tart; too sour; bitter				7		8	5		8						
Prefer canned/dried form				6		7	5		1.0						
Nonavailability				18		23	7		13				11		17
Dislike pits, seeds, core							12	9	14	9	9	9			
Prefer other fruits			6	8		10	5		10			13	9		14
Not familiar with fruit				6		7							24		39
Dislike skin, fuzz															
Other taste reasons				6		8									
Ripening and spoilage problems															
Canned or dried fruit tastes better															
Number of cases	2,415	2,307	108	2,415	529	1,886	2,415	1,168	1,247	2,415	2,179	236	2,415	944	1,471

		Peache	S		Pears			Pineapp	le	Plums	, fresh	prunes
Negative attitudes toward use and/or purchase	Total	Pur- chas- ers	Non- pur- chasers									
		Perce	nt		Perce	nt		Perce	nt .		Perce	nt
Have no dislikes	78	80	64	83	89	69	37	64	25	80	88	63
Hard to prepare							46	26	54			
Have own trees, friends or relatives supply them			32	11		36				8		23
Health reasons			12			6	6		8			8
Texture reasons			5	6		12						
Coo expensive			14			10	9		12			9
/we don't like them			6			14			6	6		17
Dislike taste - (general)												8
Part; too sour; bitter							8		11	5		12
Prefer canned/dried form			6			5	11		16			6
Nonavailability			6			5	6		8			8
Dislike pits, seeds, core												
Prefer other fruits			7			7			5			12
Not familiar with fruit							5		7			
Dislike skin, fuzz	6	6	7									
Other taste reasons												
Ripening and spoilage problems	5		7	5	5	7						
Canned or dried fruit tastes better							5		6			
Number of cases	2,415	2,104	311	2,415	1,677	738	2,415	712	1,703	2,415	1,613	802
					1							

¹ This table represents a summary of reasons for nonuse of the various fruits and homemakers' dislikes of the specific fruits.

Table 32.--Homemakers who had purchased fresh apples in the past 12 months: "Where do you buy fresh apples most often to use at home? Where eise do you buy them occasionally?"

Percent ally Percent 10 2 8 8 13 17 1 6 13 8 8 11 1 6 4 12 8 8 11 1 6 4 12 8 8 11 1 6 6 1 13 1 6 6 6 1 13 1 6 6 1 1 6 6 6 1 1 6 6 6 1 1 6 6 6 6
0 1011 000 001 0001 00
17. 6 110 0 1 7. 7. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
13
at et
7 28 10
23

 1 Percentages add to more than 100 because some respondents named more than one point of purchase.

Table 33.--Homemakers who had purchased fresh apples in the past 12 months: "During the fall and winter do you use fresh apples at least once a week or do you use them less often? What about the spring? What about the summer?"

	Fall a	nd winter	Sp	ring	Su	mmer	
Background characteristics	At least once a week	Less than once a week	At least once a week	Less than once a week	At least once a week	Less than once a week	Cases
	Percent	Percent	Percent	Percent	Percent	Percent	Number
United States total	86	14	65	35	62	38	2,307
Region: Northeast	90 83 85 85	10 17 15	71 59 68 63	29 41 32 37	64 58 65 59	36 42 35 41	596 675 715 321
Size of community: Large metropolitan areas Small metropolitan areas Nonmetropolitan areas	87	13	72	28	68	32	891
	85	15	61	39	58	42	640
	85	15	61	39	58	42	776
Family income: Upper Middle	90	10	70	30	59	41	680
	85	15	63	37	64	36	755
	83	17	65	35	64	36	596
Education of homemaker: No high school	84	16	67	33	66	34	540
	84	16	63	37	63	37	498
	88	12	68	32	63	37	818
	85	15	61	39	53	47	444
Age of homemaker: Under 36 years 0ver 50 years	83	17	64	36	63	37	765
	89	11	69	31	63	37	797
	85	15	62	38	59	41	730
Family composition: No children	83	17	61	39	59	41	918
	79	21	64	36	64	36	310
	89	11	68	32	63	37	672
	93	7	71	29	66	34	407
Size of household: Small	82	18	60	40	58	42	753
	86	14	66	34	63	37	869
	90	10	69	31	64	36	685
Apple purchase levels: High	95	5	75	25	69	31	728
	91	9	69	31	64	36	975
	66	34	46	54	48	52	564

Table 34.--Homemakers who had purchased fresh apples in the past 12 months and had used them less often than once a week during certain seasons: "Why don't you use them more often during (SEASON)?"

Reasons for infrequent use	Fall and winter	Spring	Summer
	Percent	Percent	Percent
oo expensive	16	20	16
ike a variety of fruits	14	10	5
wer people at home	13	6	5
we a taste for them only at certain times	10	4	. 3
ney have limited use	8	4	4
ealth reasons	7	3	2
/we don't like them	6	3	2
ot as good at this time of year	5	25	20
e, prefer other processed fruit	5	2	1
refer other fruits/juices	3	1	2
on't shop that often in that season	3	1	1
many other fruits available	2	18	35
ess variety available	2	13	14
refer other foods	2	2	2
slike taste	1	4	3
oor taste (general)	1	4	3
on't bake/pack lunches as much	1.	(*)	1
ot in season (general)		3	2
ll other reasons	2	1	1
ot ascertained	7	3	3
Number of cases	327	799	881

 $^{^{\}rm 1}$ Percentages add to more than 100 because some respondents gave more than one reason. *Less than 1 percent.

Table 35. -- Homemakers who had purchased fresh apples in the past 12 months: The proportions who use fresh apples less often than once a week by seasons and selected reasons

vinter ¹	Cases	Number	327		1111			1
Fall & winter	Too expen- sive	Percent	16	1 1 1 1	1 1 1 1			1
	Cases		881	217 287 247 130	184 184 301 208	275 271 217	380 113 251	137
	Less variety avail- able	ent	14	16 13 16 6	12 13 14	19	14	13
Summer	So many other fruits available	Percent	35	34 31 39 41	30 26 38 45	42 35 27	31 41	41
	Tou expen- sive		16	16 15 17 20	21 20 13 15	16. 12. 27	11 15 21	25
	Cases	Number	799	173 277 231 118	178 182 260 175	201 277 210	353 113 216	117
	Like a variety of fruits		10	5117	9 17 9	10 11 10	8 2 2 2 1	6
ing	So many other fruits avail-able	Percent	13	20 17 20 20	11 16 19 23	21 19 11	16 21 16	20
Spring	Too expen- sive	Per	20	19 20 19 21	25 21 16 20	21 16 28	14 13	31
	Not as good at this time of year		25	27 24 26 21	21 21 28 27	35 20 21	23 21 28	27
	Background characteristics		United States total	Region: Northeast North Central South	Education of homemaker: No high school Some high school High school graduate-	Family income: Upper Middle Lower	Family composition: No children Children under 6 only Children 6-17 only Children in both age	groups

1 Number for fall and winter was too small for detailed analysis.

Table 36.--Homemakers who purchased fresh apples in the past 12 months: "During the past year, in which of these ways have you used raw apples in your home? Eaten out-of-hand? Salads? Fruit cups?"

Background characteristics	For eating out of hand	In salads	In fruit cups	In other ways ²	Have not used raw apples	Cases
	Percent	Fercent	Percent	Percent	Percent	Number
United States total	97	63	31	4	1	2,307
Region:						
Northeast	98	43	38	3	1	596
North Central	97	66	24	6	1	675
South	98	73	32	3	(*)	715
West	96	69	31	2	2	321

Percentages add to more than 100 because some respondents mentioned more than one way of using raw apples.
Includes use in jello, use in taffy or candy apples, and other purposes.

Table 37.--Homemakers who had used fresh apples raw in the past 12 months: "When are apples eaten raw by your family?" 1

Background characteristics	Daytime snacks	Evening snacks	Packed lunches	Meals at home	No particular time	Cases
	Percent	Percent	Percent	Percent	Percent	Number
United States total	77	77	39	24	2	2,289
Region:						
Northeast	80	80	39	1.5	1	590
North Central	71	80	43	21	1	669
South	81	75	32	32		714
West	72	70	49	29	8	316
Size of community:						
Large metropolitan areas	75	76	42	20	3	880
Small metropolitan areas	77	81	45	27	2	639
Nonmetropolitan areas	78	75	31	26	(*)	770
Family income:						
Upper	78	78	44	23	2	677
Middle	74	78	47	21	2	750
Lower	81	76	27	30	1	591
Age of homemaker:						
Under 36 years	83	75	45	19	2	764
36 - 50 years	75	78	47	23	2	797
Over 50 years	72	77	26	30	2	713
Family composition:						
No children	69	78	29	29	1	902
Children under 6 only	87	73	41	22	2	308
Children 6 - 17 only	77	81	49	22	2	672
Children in both age groups	86	71	46	18	2	407
Size of household:						
Small	70	78	28	30	1	739
Medium	77	79	44	21	2	866
Large	84	73	46	21	2	684
Apple purchase levels:						
High	80	79	47	25	2	725
Medium	76	75	39	25	2	969
Low	74	77	31	2.2	1	556

¹ Percentages add to more than 100 because some respondents mentioned more than one occasion.

^{*}Less than 1 percent.

Table 38.--Homemakers who had used fresh apples raw in the past 12 months:
"Now will you look at this card and tell me which of these qualities do you look for when choosing fresh apples for eating raw?"

Qualities	United States total	Northeast	North Central	South	West
	Percent	Percent	Percent	Percent	Percent
Appearance: No blemishes No bruises Smooth skin	71	66	78	65	75
	62	54	70	57	70
	33	32	36	31	30
ShinySoft skin	26	25	25	27	27
	9	6	10	12	7
Size and shape: Medium Uniform shape Large All same size Small	65	64	68	65	60
	14	13	15	12	17
	13	11	11	17	13
	6	7	5	6	8
	6	5	5	6	11
Color: Deep red Bright red Yellow Part red, part green Green	43	43	40	45	47
	41	40	44	39	40
	19	11	24	20	18
	14	18	13	11	12
	5	4	3	2	15
Firmness: Firm but not hard HardSoft	62	67	63	58	60
	24	26	24	19	30
	9	4	9	15	3
Taste: Sweet Tart	50	45	55	52	48
	21	14	25	22	22
Juiciness: Juicy Dry	87	84	88	88	90
	2	2	2	2	(*)
Variety or kind of apple	27	25	35	22	27
Number of cases	2,289	590	669	714	316

¹ Percentages add to more than 100 because some homemakers selected more than one quality.

^{*}Less than 1 percent.

Table 39.--Homemakers who had used fresh apples raw in the past 12 months: "Which <u>variety</u> or kind of apples do you prefer for eating raw?" 1

Varieties preferred	United States total	Northeast	North Central	South	West
	Percent	Percent	Percent	Percent	Percent
elicious	58	44	57	62	72
Intosh	23	60	16	5	9
nathan	17	1	40	5	26
nesap, Stayman Winesap	16	11	13	23	14
ome Beauty	3	1	2	4	7
rimes Golden	3	1	5	2	2
rtland	2	7	(*)	(*)	
rk Imperial	1	1	(*)	2	
rthern Spy	1	2	1	(*)	
eenings	1	1	1	(*)	(*)
ldwin	1	3	(*)		
lppin	1	(*)		(*)	5
ashington State	1	1	(*)	1	2
ll other varieties	3	2	5	2	4
preference	8	4	8	11	6
umber of cases	2,289	590	669	714	316

 $^{^{\}rm 1}$ Percentages add to more than 100 because some homemakers selected more than one variety. *Less than 1 percent.

Table 40.--Homemakers who had used fresh apples in the past 12 months: The qualities looked for and varieties chosen in fresh $apples^1$

	Deli	cious	McI	ntosh	Jone	than		sap or Winesap
Qualities	Eating raw	Cooking	Eating raw	Cooking	Eating raw	Cooking	Eating raw	Cooking
	Per	cent	Per	cent	Per	cent	Per	rcent
ppearance:								
No blemishes	73	60	71	57	79	62	69	55
No bruises	65	52	60	49	69	64	60	50
Smooth skin	34	24	31	16	36	28	34	22
Shiny	27	14	27	11	24	10	27	8
Soft skin	10	9	8	5	7	6	9	4
Size and shape:								
Medium	64	56	67	45	71	60	66	59
Uniform shape	15	9	16	13	17	13	13	11
Large	15	23	10	21	9	15	11	14
All same size	6	4	7	9	6	9	8	9
Small	6	4	6	3	8	5	6	4
Color:								
Deep red	46	30	39	18	37	21	44	25
Bright red	41	29	42	30	49	35	41	26
Yellow	25	16	14	4	21	7	18	3
Part red, part green	11	20	21	32	16	31	15	25
Green	5	11	5	13	7	15	4	17
Firmness:								
Firm, but not hard	64	56	67	54	62	62	59	47
Hard	23	23	24	22	27	18	31	33
Soft	9	7	6	7	7	3	6	4
Do - +					·	_		,
Caste: Sweet	57	36	46	26	,,	22	/ 0	3.4
Tart	18	29	18	26 33	44 36	22 49	40 39	16 52
	10	27	10	22	20	47	39	52
Juiciness:								
Juicy	90	73	85	73	90	72	86	69
Dry	1	3	1	5	1	3	2	4
Number of cases	1,317	182	531	334	393	327	357	404

 $^{^{\}mathbf{1}}$ Percentages add to more than 100 because some respondents selected more than one quality.

Table 41.--Homemakers who had used fresh apples in the past 12 months: "During the past year have you used fresh apples for cooking or baking?"

Background characteristics	Have used fresh apples for cooking or baking in past year	Have not used fresh apples for cooking or baking in past year	Cases
	Percent	Percent	Number
United States total	84	16	2,307
Region: Northeast North Central South West	85	15	596
	89	11	675
	80	20	715
	78	22	321
Size of community: Large metropolitan areas Small metropolitan areas Nonmetropolitan areas	80	20	891
	83	17	640
	88	12	776
Family income: Upper Middle Lower	81	19	680
	85	15	755
	84	16	596
Employment of homemaker: Full time Part time Not employed	79	21	500
	83	17	217
	85	15	1,590
Education of homemaker: No high school Some high school High school graduate College	85	15	540
	84	16	498
	84	16	818
	81	19	444
Age of homemaker: Under 36 years 36 - 50 years Over 50 years	78	22	765
	85	15	797
	88	12	730
Family composition: No children	83	17	918
	78	22	310
	87	13	672
	84	16	407
Size of household: Small Medium Large	81	19	753
	85	15	869
	85	15	685
Apple purchase levels: High Medium Low	89	11	728
	85	15	975
	76	24	564

Table 42.--Homemakers who used fresh apples for cooking and baking in the past 12 months: "Now will you look at this card and tell me which of these qualities do you look for when choosing fresh apples for cooking or baking?" 1

Qualities	United States	North-	North	South	West
	total	east	Central		
	Percent	Percent	Percent	Percent	Percent
Appearance: No blemishes	55	50	61	52	60
No bruises	49	39	57	44	59
Smooth skin	19	14	21	21	22
ShinySoft skin	8	8	8	9	11 4
SOI U SAIII		**			4
Size and Shape:	£3	, ,	50	EM	
Medium	51 19	44 26	53 17	57 15	46
Uniform shape	11	7	11	10	17
All same size	8	6	10	6	9
Small	4	3	3	7	4
Color:					
Part red, part green	25 23	26 22	30	22	17 57
Bright red	23	20	27	24	17
Deep red	19	18	16	27	13
Yellow	6	3	9	6	6
Firmness:					
Firm but not hard	47	46 30	51	41	53
Soft	27 5	6	20	33	26
Taste:	43	32	49	45	50
Sweet	20	20	24	17	18
Juiciness: Juicy	68	67	73	62	70
DLA	5	5	5	6	2
Variety or kind of apple-	25	20	28	21	32
Number of cases	1,930	508	598	574	250

¹ Percentages add to more than 100 because some homemakers selected more than one quality.

Table 43.--Homemakers who had used fresh apples for cooking or baking in the past 12 months: "Which variety or kind of apples do you prefer for cooking or baking?"

Varieties preferred	United States total	Northeast	North Central	South	West
	Percent	Percent	Percent	Percent	Percent
inesap, Stayman Winesap	21	10	15	41	12
Intosh	17	39	16	3	8
onathan	17	2	35	11	19
elicious	9	7	7	13	13
ome Beauty	6	3	7	4	18
ortland	4	14	(*)	(*)	
reenings	4	10	4	i	1
Ippin	4		(*)	(*)	30
aldwin	3	8	ì	ì	(*)
orthern Spy	3	6	5		lii
rimes Golden	2	1	3	1	
ork Imperial	2	1		5	(*)
ravenstein	1	(*)			8
ealthy	1	(*)	1		
ransparent	1		3		1
ll other varieties	4	4	4	4	4
preference	14	12	17	16	9
umber of cases	1,930	508	598	574	250

¹ Percentages may add to more than 100 because some respondents named more than one variety.

Table 44..--Homemakers who had purchased fresh apples in the past 12 months but had not used them for cooking or baking: "How come you haven't used fresh apples for cooking or baking?" 1

Reasons	United States total
	Percent
Prefer raw apples	23
No time to bake	21
Not worth the effort	16
on't bake	12
Buy canned applesauce	10
Jse canned cooking apples	10
ittle or no cooking experience	10
Wealth reasons	8
buy store bought desserts	6
on't especially like desserts	6
buy frozen apple pies	6
'oo expensive to buy apples	4
ll other reasons	3
lot specified	1
Number of cases	377

 $^{^{\}rm l}$ Percentages add to more than 100 because some respondents gave more than one reason.

^{*} Less than 1 percent.

Table 45.--Homemakers who had used fresh apples for cooking or baking in the past 12 months: "During the past year, in which of these ways have you used fresh apples for cooking or baking? Homemade applesauce, baked apples, apple cake...?"1

Background characteristics	Apple pie	Baked apples	Homemade applesauce	Apple cake	Other desserts	Fried apples	All other ways	Cases
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Number
United States total	84	66	64	30	38	6	3	1,930
Region:								
Northeast	79	65	78	37	36	2	2	508
North Central	89	62	73	34	44	7	5	598
South	85	69	44	22	35	10	3	574
West	76	70	60	28	31	2	4	250
Size of community:								
Large metropolitan areas	76	66	66	27	28	5	3	717
Small metropolitan areas	87	67	66	31	43	6	4	531
Nonmetropolitan areas	89	64	61	32	44	6	3	682
Age of homemaker:								
Under 36 years	84	54	52	27	37	6	3	594
36 - 50 years	87	68	66	33	41	5	3	677
Over 50 years	80	75	74	30	35	7	4	646
Family composition:								
No children	79	72	71	27	33	6	4	761
Children under 6 only	84	50	51	28	40	7	5	243
Children 6-17 only	86	68	64	36	40	6	5	583
Children in both age groups	89	61	59	29	42	5	3	343
Size of household:								
Small	77	73	70	26	32	ь	4	610
Medium	84	64	61	29	39	7	1 3	735
Large	90	61	62	35	42	5	4	585
Apple purchase levels:								
High	89	70	73	36	44	6	4	645
Medium	81	65	60	29	38	6	3	824
TOW	80	60	61	25	29	5	1 7	430

¹ Percentages add to more than 100 because some respondents mentioned more than one way.

Table 46.--Homemakers who had used fresh apples for cooking or baking in the past 12 months: "What percentage of all the fresh apples bought during the past year did you use for cooking or baking?" 1

Background characteristics	75 percent and over	50 to 74 percent	25 to 49 percent	Less than 25 percent	Caser
	Percent	Percent	Percent	Percent	Number
United States total	11	28	29	31	1,930
Region:				1	
Northeast	12	31	27	29	508
North Central	13	31	27	28	598
South	9	25	35	31	574
West	9	21	22	47	250
4620	7	21	22	47	230
ize of community:			İ		
Large metropolitan areas	9	24	27	39	717
Small metropolitan areas	11	30	29	30	531
Nonmetropolitan areas	14	32	30	24	682
amily income:					
Upper	8	23	31	38	554
Middle	10	28	32	29	640
Iower	14	32	27	26	500
	204	26	21	20	200
imployment of homemaker:					
Full time	9	25	31	35	396
Part time	12	31	33	24	181
Not employed	12	28	28	31	1,353
ducation of homemaker:					
No high school	14	33	28	24	459
Some high school	11	26	28	34	417
High school graduate	10	26	30	34	687
	11	28	29		
College	7.7	20	29	32	360
ge of homemaker:					
Under 36 years	6	21	30	42	594
36 - 50 years	7	28	34	31	677
Over 50 years	20	35	23	20	646
amily composition:					
No children	18	32	24	25	761
Children under 6 only	9	21	26	43	243
Children 6-17 only	7	26	35		
	4			32	583
Children in both age groups	4	27	31	37	343
ize of household:					
Small	18	32	24	25	610
Medium	10	26	31	33	735
Large	6	26	31	36	585
pple purchase levels:					
High	11	29	32	27	645
Medium	8	28	28	35	824
TOW	17	27			
1UT	T./	21	24	31	430

¹ Percentages may add to less than 100 because answers were not obtained from all homemakers.

Table 47.--Homemakers who had used fresh apples for cooking or baking in the past 12 months: "Do you sometimes buy a certain variety or kind of apple especially for cooking or baking?" If no, "Why not?" 1

Replies	United States total
	Percent
o buy	73
o not buy	27
Like all purpose apples	8
Use whatever is on hand	6
Like the qualities of eating apples for all purposes	4
Not fussy about kind	3
Just buy, use what is liked	2
Buy cheapest for cooking	2
See no difference	1
Raise own	1
Easier to get one kind	1
Not available	1
umber of cases	1,930

¹ Percentages add to more than the group total because some respondents mentioned more than 1 reason.

Table 48.--Homemakers who had purchased fresh apples in the past 12 months: "Do you have any difficulty in finding good fresh apples for cooking or eating raw?" If yes--"Is that at any particular time of year?" If so-"At what particular time of year does this occur?"

Replies	Percent
Do not have difficulties	86
Have difficulties	14
Do not occur at any particular time of year	3
Occur at a particular time of year	11
	6
SDPING NO 100 800 800 800 800 800 800 800 800 800	4
	2
	1
mber of cases	2,307

⁻ Percentages add to more than the group total because some respondents ranticued tore than 1 season.

Table 49.--Homemakers who had difficulty in finding good fresh apples for cooking or eating raw: "Is this with any special variety or kind of apple?"

Replies	United States total
DOES NOT OCCUR WITH ANY SPECIFIC VARIETY	Percent 54
OCCURS WITH A SPECIFIC VARIETY	46 20 7 6 3 2 2 2 2 1 1 1 2 5
Number of cases	324

¹ Percentages add to more than the group total because some respondents mentioned more than one variety.

Table 50.--Homemakers who had purchased fresh apples in the past 12 months: "Have you been disappointed in apples that you have bought during the past year?"

Region	Have been disappointed	Have not been disappointed	Cases
	Percent	Percent	Number
United States total	28	72	2,307
Region: Northeast North Central South West	25 31 25 38	75 69 75 62	596 675 715 321

Table 51.--Homemakers who said they had been disappointed with the apples bought in the past 12 months: "In what ways?" 1

Replies	United States total
Interior blemishes and deterioration	Percent 25
Dry	22
Soft, mushy, soggy	21
No taste, flat	16
Bruised, blemished	15
Mealy, powdery, pulpy	13
Complete spoilage	11
Sour, not sweet	11
Too hard	10
Dislike the taste	7
Dislike the quality	7
Spoiled quickly, easily	6
Not fresh, crisp	4
Skin tough, thick	4
Wormy	4
Too small	3
Musty taste	1
All other reasons	6
Number of cases	655

¹ Percentages add to more than 100 because some respondents gave more than one answer.

Table 52.--Homemakers who said they had been disappointed with apples bought in the past 12 months: "Where did you buy the apples you did not like?"

Point of purchase	Homemakers responding
	Percent
Supermarket	61
rocery store	21
oadside stand	6
eddler	5
armer's market	4
rchard, farm	2
ll other places	3
ot ascertained	1
Number of cases	655

¹ Percentages add to more than 100 because some respondents named more than one point of purchase.

Table 53.--Homemakers who had bought fresh apples in the past 12 months: "Have you bought something else at anytime in the past year when you would have preferred to buy apples? What did you buy (last time)?"

Replies	Homemakers who responded	
	Percent	
HAVE NOT BOUGHT SUBSTITUTES	86	
HAVE BOUGHT SUBSTITUTESBananas	14	
Oranges	3	
Peaches	1	
Plums or fresh prunesOther fresh fruits or berries	1	
Other substitutes	ī	
Number of cases	2,307	

¹ Percentages add to more than their group total because some respondents named more than 1 fruit.

Table 54.--Homemakers who had bought substitutes for apples in the past 12 months when they would have preferred to buy apples: "What were the circumstances?"

Circumstance	United States total	
	Percent	
Not available	31	
Too expensive	21	
Disliked the appearance	19	
Bruised, blemished, rotten	17	
Poor quality	16	
Out of season	14	
Soft, mushy, not firm	5	
Disliked the size	5	
Disliked the color	3	
Withered, old looking	3	
Too dry, dried up	2	
Other circumstances involving quality	3	
All other circumstances	3	
Number of cases	330	

¹ Percentages add to more than 100 because some respondents gave more than 1 circumstance.

Table 55.--All homemakers: Proportions who had made applesauce and/or purchased processed applesauce

Background characteristics	Used home- made only	Used processed only	Used both kinds	Used neither kind	Cases
	Percent	Percent	Percent	Percent	Number
United States total	14	35	36	15	2,454
Region: Northeast North Central South West	14	31	48	7	637
	18	28	44	10	716
	11	40	23	26	742
	12	43	29	16	359
Size of community: Large metropolitan areas- Small metropolitan areas- Nonmetropolitan areas	11	40	39	10	945
	11	35	41	13	676
	19	28	31	22	833
Family income: Upper Middle Lower	11	42	41	6	700
	13	35	39	13	807
	17	28	29	26	654
Education of homemaker: No high school Some high school graduate College	18	26	31	25	603
	12	38	33	17	519
	13	38	39	10	860
	14	36	42	8	464
Age of homemaker: Under 36 years 36 - 50 years Over 50 years	8	49	31	12	791
	13	33	40	14	834
	21	23	38	18	812
Family composition: No children Children under 6 only Children 6-17 only Children in both age	19	28	34	19	1,025
	9	51	30	10	318
	13	33	42	12	691
groups	9	42	39	10	420
Size of household: Small Medium Large	18	29	32	21	851
	12	38	38	12	898
	11	38	40	11	705

Table 56.--Homemakers who had purchased processed applesauce in the past 12 months: "How do you generally use the applesauce you buy?" 1

Uses	United States total
	Percent
As a side dish with meat	62
As a dessert	42
In recipes for cake, cookies, etc	12
As garnish on meat	8
As a breakfast fruit	5
With pancakes	5
On toast, bread	4
As a snack	3
As baby food	2
All other uses	1
Number of cases	1,747

 $^{^{1}}$ Percentages add to more than 100 because some respondents mentioned more than one use.

Table 57.--Homemakers who had purchased processed applesauce in the past 12 months: "Which do you prefer, homemade applesauce or the kind you can buy in the store?"

Background characteristics	Prefer homemade applesauce	Prefer processed applesauce	Have no preference	Cases
	Percent	Percent	Percent	Number
United States total	45	36	19	1,747
Region: Northeast North Central South West	55 52 32 39	29 31 46 39	16 17 22 22	503 514 471 259
Age of homemaker: Under 36 years 36 - 50 years Over 50 years	42 45 50	40 37 29	18 18 21	636 610 490

Table 58.--Homemakers who had purchased processed applesauce in the past 12 months and preferred the processed; preferred the homemade: "Why is that?"1

Reasons for preference	Preferred processed applesauce	Preferred homemade applesauce
	Percent	Percent
More convenient	63	
Less expensive	12	4
Better taste	11	20
Setter made	11	
Smoother	9	2
Other taste factors	1 5	11
Sweet	3	8
Cart	3	5
Can flavor to own taste	2	30
Just like it better	2	3
Never tasted homemade	2	
Fresh taste	1	20
Color	1	3
Other consistency and texture reasons	1	2
Cangy	1	12
'an celes' own apples		6
nunkier	40.00	3
Vatritious, nealthier		1
frinner	~~	1
Inioker		5
all other reasons	4	3
Ot assertained	1	1
Winter of cases	024	795

 $^{^{\}rm 1}$ Percentages add to more than 100 because some respondents gave more than one reason for preference.

Table 59.--All homemakers: "How would you describe the way good applesauce should look and taste?"1

Characteristics	United States total	Northeast	North Central	South	West
	Percent	Percent	Percent	Percent	Percent
Taste:					
Sweet	27	27	34	26	19
Not too sweet, not too tart	23	28	23	22	20
Tart	13	1.3	14	12	14
With a little cinnamon	10	15	13	4	9
With other specific spices	9	11	8	10	9
Fresh taste	9	7	9	11	7
Tangy	4	3	4	3	4
No seasoning	3	3	3	3	4
Other characteristics	3	3	3	4	5
Consistency:					
Medium thick	25	27	23	23	29
Smooth	25	31	25	23	23
Thick, heavy	12	8	13	14	15
Chunky	6	6	9	3	8
Thin	2	2	7	2	1
Consistency is not important	(*)		(*)		(*)
Other characteristics	(*)		(*)	(*)	1
Color:					
Yellowish	20	21	24	17	18
Light	18	12	19	23	16
Pink	11	20	12	4	6
Clear	9	4	12	14	4
Tan, brownish	8	11	7	6	7
Bright	4	2	3	6	3
Color is not important	(*)	(*)	(*)	(*)	1 1
Other characteristics	(*)	(*)	1	(*)	(*)
All others (not taste, color, consistency)	(*)	(*)	1	1	(*)
Not ascertained	4	í	ī	8	3
Number of cases	2,454	637	716	742	359

 $^{^{\}rm l}$ Percentages add to more than 100 because some respondents mentioned more than one characteristic. * Less than l percent.

Table 60.--Homemakers' opinions about the consistency and color good applesauce should have

Characteristics	Unaided ²	Aided ²	Total aided and unaided	Northeast	North Central	South	West
onsistency:	Percent	Percent ³	Percent	Percent	Percent	Percent	Percent
Medium thick	25	25	49	51	48	49	50
Smooth	25	9	35	44	34	30	29
Thick, heavy	12	12	24	21	26	26	26
Chunky	6	3	9	7	14	4	12
Thin	2	2	3	4	2	3	5
Consistency is not important	(*)	2	2	1	1	2	3
Other consistency character-							
istics	(*)	1	1	1	1	1	1
olor:							
Yellowish	20	14	35	34	36	30	42
Light	18	5	23	14	24	30	22
Pink	11	4	15	26	15	7	9
Clear	9	2	12	4	14	17	9
Tan, brownish	8	4	12	17	10	9	12
Bright	4	1	4	3	3	7	4
Color is not important	(*)	5	5	6	5	5	8
Other color characteristics	(*)	1	1	1	2	1	(*)

¹ Percentages add to more than 100 because some respondents mentioned more than one characteristic.

* Less than 1 percent

Table 61.--Homemakers who had indicated a preference for processed or homemade applesauce: "How would you describe the way good applesauce should look and taste?"

	Homemakers v	who preferred
Description	Homemade applesauce	Processed applesauce
aste:	Percent ²	Percent ²
Sweet	27	29
Not too sweet, not too tart	22	27
With a little cinnamon	17	6
Tart	17	12
With other spices	16	6
Fresh taste	10	10
Tangy	5	3
No seasoning	2	3
Other characteristics	4	3
Consistency:		
Medium thick	50	55
Smooth	36	38
Thick, heavy	26	22
Chunky	13	5
Thin	3	5
Consistency is not important	1.	1
Other characteristics	1	1
Color:		
Yellowish	30	46
Pink	24	5
Tan, brownish	19	7
Light	17	31
Clear	9	11
Bright	7	3
Color is not important	3	4
Other characteristics	1	1
Number of cases	795	624

² Homemakers were asked, "How would you describe the way good applesauce should look and taste?"

(unaided). Those who did not mention color or consistency were then asked, "What about color?" "What about consistency?" (aided) (see table 59).

³ Percentages add to less than 100 because it was not necessary to ask all respondents Q. 29b, c.

 $^{^{1}}$ See footnote 1 to table 60. 2 Percentages add to more than 100 because some respondents mentioned more than one characteristic.

Table 62. -- All homemakers: "Which of these canned fruits have you bought within the past 12 months for use in your home?" 1

Background characteristics	Pineapple	Fruit coextail or salad	Peaches	Pears	Apricots	Sweet	Apple:	Flume or prune	Sour	None	Caue::
	Percent	Percent	Percent	Percent	Percent	Percent	Fercent	Percent	Percent	Percent	Number
United States total	86	. 86	83	69	43	36	3.	32	28	2	2,454
Northeast	88 88 88 88	8 8 8 8 8 8 11 88	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	70 68 58 67	2002	7,78,75	25 32 41 41	W 8 8 8 0	239	-1 × 1 ×	637 716 742 359
Size of community: Large metropolitan areas Small metropolitan areas Nonmetropolitan areas	82 877 90	 48 88 89 89	88 85 80 85	66 59	45 46 39	30 38 41	32	33.75	222	m ~ m	945 676 833
Upper	93	92 90 76	88	79 65	53 83 83	43 36 26	37 36 31	733	32 32 21	446	700 807 654
Education of homemaker: No high school	2 2 2 2 E	76 9.9.1 88.	4, 2, 2, 3, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,	50 63 71 78	E E E E E E E E E E E E E E E E E E E	30 31 45 45 45	25 35 30 30 30 30	39563	25 52 30 30 30 30 30 30 30 30 30 30 30 30 30	2010	603 519 860 464
Age of homemaker: Under 36 years	85 90 83	88 79	88	70 67 60	39 46 46	34	36 29	37,73	22 22	Ol Ol a)	791
No children	88 86 89 91	93	777 89 89 90 8	59 74 67 71	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3,83,8	30 37 36	22 24 23 24 35 55	23.25	2021	1,025 318 691 420
Size of household: Small	0888	76 90 91	76 87 86	58 70 68	41747	3693	29 37 36	356	24 31 29	917	851 898 705

¹ Percentages add to more than 100 because some respondents mentioned more than one canned fruit.

Table 63. -- Homemakers who had purchased the specific fresh fruits in the past or recent years and who had purchased the same fruit canned in the past year

	Cases	Number	2,307 27 80	529 427 1,395	2,104	1,677 220 476	712 410 1,196	1,613 194 553	1,168 346 833
In the past year	Did not buy same fruit canned	Percent	2 1 68	38 53 64	14 26 37	26 41 58	11151	62 74 84	58 61 72
	Bought same fruit canned	Percent	36	347 8	86 74 63	74 20 27 24 27 27 27 27 27 27 27 27 27 27 27 27 27	8 8 8 9 9 7	38 26 16	75 336 58
	Fresh fruits purchased in past year and in recent years		Apples Had bought in past year, but had bought in recent years	Apricots Had bought in past year, but had bought in recent years	Had bought in past year.————————————————————————————————————	Had bought in past year. But had bought in recent years. Had not bought in past year or in recent years.	Pineapple Had bought in past year, but had bought in recent years	Had bought in past year, but had bought in recent years	Sweet cherries Had bought in past year. Had not bought in past year, but had bought in recent years.

1 Number of cases too small for detailed analysis.

Table 64.--All homemakers: "Which of these juices have you bought in the past 12 months?" 1

Background characteristics	Grape	Pineapple juice	Prune juice	Apple juice	None	Cases
	Percent	Percent	Percent	Percent	Percent	Number
United States total	63	62	40	38	13	2,454
	ν.	7	77	47	Ç	727
North Central	0 0	58	30 40	0 to	17	716
	62	61	38	32	15	742
Westernmen	63	69	38	55	6	359
Size of community: Large metropolitan areas	2	65	4	40	Ħ	945
Small metropolitan areas	99	63	39	23.33	13	676
Family income:						
Upper	74	71	45	48	7	7007
Middle	53	2 %	39	39	10	807
		ţ	2	0	172	400
Education of homemaker: No high school	52	53	36	27	27	603
Some high school	61	2	42	36	14	519
aduatea	67	30	40	37	010	860
	7/	000	7	40	О	404
Age of homemaker:	12	7	37	67	C	107
36 - 50 Vears	H V2	7.9	70	7 %	2 5	768
	52	59	41	31	18	812
Family composition:						
No children	52	58	41	32	18	1,025
Children under 6 only	8	58	41	48	11	318
Children 6-17 only	70	89	42	37	10	169
Children in both age groups	75	49	3,5	43	7	450
Size of household:						
Small	51	57	39	32	19	851
Medium	29	63	42	41	10	868
	72	600	38	41	6	705

1 Percentages add to more than 100 because some respondents mentioned more than one juice.

Table 65.--All homemakers: "Have you bought any dried prunes in the past year?"

Background characteristics	Have bought dried prunes in the past year	Have not bought dried prunes in the past year	Cases
	Percent	Percent	Number
United States total	59	41	2,454
Age of homemaker:			
Under 36 years	47	53	791
36 - 50 years	64	36	834
Over 50 years	64	36	812

Table 66.--Homemakers who had bought dried prunes in the past year: "How often have you used them in the past year?"

Background characteristics	Less than once a month	Once a month	2 or 3 times a month	Once a week	More than once a week	No answer	Cases
	Percent	Percent	Percent	Percent	Percent	Percent	Number
United States total	44	23	18	8	6	1	1,440
Region:							
Northeast	49	23	15	6	7		343
North Central	47	22	17	7	7		427
South	39	23	21	. 9	6	2	456
West	44	25	17	9	5		214
Size of community:							
Large metropolitan areas	42	24	18	8	8		537
Small metropolitan areas	51	22	14	7	5	1	405
Nonmetropolitan areas	41	24	21	7	5	2	498
Family income:							
Upper	49	24	15	7	5		438
Middle	48	22	18	6	6		453
Lower	35	23	23	10	7	2	368
Education of homemaker:							
No high school	37	22	21	10	9	1	343
Some high school	40	26	18	8	7	1	307
High school graduate	52	21	16	6	4	1	507
College	47	23	17	7	5	1	278
Age of homemaker:							
Under 36 years	55	21	14	5	5		373
36 - 50 years	46	26	16	6	5	1	533
Over 50 years	36	21	22	11	9	1	522
Family composition:							
No children	38	24	20	9	8	1	618
Children under 6 only	53	21	16	6	3	1	144
Children 6-17 only	46	22	18	7	6	1	436
Children in both age groups	53	24	15	5	3		242
Size of household:							
Small	41	21	19	9	9	1	492
Medium	44	23	18	8	6	1	528
Large	49	25	16	6	4		420

Table 67.--All homemakers: Incidence of purchasing dried prunes, canned plums or prunes, and prune juice in the past year

United States Type of prune product purchased total Percent Dried prunes only-----21 Canned prunes only-----5 7 Prune juice only-----Dried and canned prunes-----9 Dried prunes and prune juice-----5 Canned prunes and prune juice -----Dried, canned, and prune juice ----Do not buy-----25 Number of cases-----2,454

Table 68.--Homemakers who had bought dried prunes in the past 12 months: "What are your main reasons for buying dried prunes?"

Reasons	United States total
	Percent
They act as a laxative	44
To make stewed prunes	19
To use as a breakfast fruit	16
Good for health	13
To use for recipes	12
To eat dry or raw	12
Like taste	10
For variety	10
To use for snacks	9
For desserts	7
They are nutritious	5
Like them (general)	4
They are sweet	4
Good for children's health	3
To eat as a substitute for sweets	3
They don't spoil	3
Easy to prepare	2
Price reasons	2
Habit	2
For juice	2
Other taste reasons	2
Availability	1
Not ascertained	1
Number of cases	1,440

¹ Percentages add to more than 100 because some respondents mentioned more than one reason.

Table 69.--Homemakers who had bought dried prunes in the past 12 months: "What, if anything, don't you like so well about them?" 1

Replies	United States total		
	Percent		
HAVE NO DISLIKES	88		
HAVE SOME DISLIKES	12 3 3 2 2 1 1 2		
Number of cases	1,440		

¹ Percentages add to more than their group total because some respondents gave more than 1 dislike.

Table 70. -- Homemakers' main reasons for buying dried prunes, by frequency of use1

	Cases	Number	1,440	642	332	257	110	888
	For variety	Percent	10	13	10	60	9	ı
	Like the taste	Percent	10	6	10	10	14	0
	To eat dry or raw	Percent	12	11	14	12	10	11
,	To use for recipes	Percent	12	13	10	13	12	11
0	Good for health	Percent	13	11	12	14	19	25
	To use as a breakfast fruit	Percent	16	12	17	19	20	23
	To make stewed prunes	Percent	19	19	19	17	21	18
	Act as a laxative	Percent	44	47	39	50	48	58
	Frequency of use		United States total	Less often than once a month.	Once a month	Two or 3 times a month	Once a week	More than once a week

 1 Percentages add to more than 100 because some respondents mentioned more than one reason.

Table 71.--Homemakers who had not purchased dried prunes in the past 12 months:

"How come you don't buy dried prunes?"1

Reasons	United States total
	Percent
Don't care for them	22
Dislike taste	21
Prefer other forms of prunes	13
Just don't bother to buy them	12
Dislike preparing them	11
Not good for health	9
Prefer other fruits	7
Expensive	7
Dislike the texture	5
Receive them as a gift	3
Don't know what they are	2
Dislike appearance	2
Unavailable	1
Dislike pits	1
All other reasons	1
Not ascertained	1
Number of cases	1,014

¹ Percentages add to more than 100 because some respondents mentioned more than one reason.

Table 72.--All homemakers: "Have you used raisins in your home in the last year?" If yes: "About how often have you used raisins in the past year?"

	Homemakers who had		Frequency of serving among users							
Background characteristics	Used raisins in the past year	Not used raisins in the past year	Cases	More than once a week	Once a week	2 or 3 times a month	Once a month	Less than once a month	Cases	
	Percent	Percent	Number	Percent	Percent	Percent	Percent	Percent	Number	
United States total	83	17	2,454	8	12	20	23	37	2,040	
Region:										
Northeast	79	21	637	9	11	22	21	37	505	
North Central	85	15	716	7	12	20	24	37	607	
South	83	17	742	5	10	19	23	43	618	
West	86	14	359	15	17	19	22	27	310	
Family composition:										
No children	75	25	1,025	6	11	20	22	41	765	
Children under 6 only	83	17	318	9	12	20	20	3 9	264	
Children 6-17 only	89	11	691	9	12	20	22	37	618	
Children in both age groups	94	6	420	10	15	20	26	29	3 93	

Table 73. -- 1957 STUDY "Have you used or served raisins in your home in the last year?" (If yes): "About how often have you used or served raisins in the past year?"

Frequency of serving	Cases	Number	2,125	523 633 337	904 222 680 318
	Less than once a	Percent	59	30 29 20	36 21 23 24
	1 - 3 times a month	Percent	34	33 33	33 40 33 35
	Once a week	Percent	19	19 18 24	18 20 21 19
	More than once a week	Percent	18	119	13 19 23
Use in past year	Cases	Number	2,572	660 743 753 416	1,187 249 784 351
	Did not use	Percent	17	21 15 16 19	24 11 13
	Used	Percent	83	79 85 81	76 89 87 91
	Background characteristics		United States total	Region: Northeast North Central South.	Family composition: No children

¹ This table comes from a survey conducted early in 1957 (Homemakers Appraise Citrus Products, Avocados, Dates and Raisins -- United States Department of Agriculture, Marketing Research Report No. 243). In comparing this table with table 72, it should be noted that the frequency categories are slightly different, and so are the age groups of children.

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Budget Bureau No. 40-6261.2 Expiration Date - January 31, 1964

With the exception of check-box material, some instructions to interviewers, office record information, and free-answer space, the questionnaire used for this study is reproduced below in entirety. Instructions to interviewers are in upper case letters enclosed in parentheses.

Good morning/afternoon/evening. I am ______ of Crossley, S-D Surveys, an independent marketing research firm. We are conducting a survey for the U.S. Department of Agriculture talking to homemakers about the fresh fruits that they buy.

la. (SHOW RESPONDENT'S CARD A) Which of these fresh fruits have you or your family bought in the past
l2 months? b. (FOR EACH FRESH FRUIT NOT BOUGHT) Why haven't you bought fresh (FRUIT) in the past year?
c. (FOR EACH FRESH FRUIT NOT BOUGHT) Have you bought fresh (FRUIT) in recent years?

RESPONDENT'S CARD A

Apples
Apricots
Bananas
Cherries

Grapes Nectarines Oranges Peaches

Pears Pineapples Plums or fresh prunes

d. (IF NONE OF THESE FRESH FRUITS HAVE BEEN BOUGHT IN THE PAST YEAR) Why is that?

(FOR HOMEMAKERS WHO HAD BOUGHT NONE OF THESE FRESH FRUITS, SKIP TO QUESTION 24a)

- 2a. (FOR EACH OF THESE FRESH FRUITS--APPLES, BANANAS, GRAPES, PEACHES) Would you say the amount of (FRUIT) you have bought in the past 12 months is more, less, or about the same as the amount bought, say, 5 years ago? b. (IF "MORE" OR "LESS") Why are you buying more/less (FRUIT) now?
- 3a. (FOR EACH OF THESE FRESH FRUITS -- APPLES, BANANAS, GRAPES, PEACHES, PEARS, PLUMS OR FRESH PRUNES)
 During which season of the year do you buy the greatest amount of fresh (FRUIT)? b. What amount of
 fresh (FRUIT) do you usually buy at a time during (THAT SEASON)? c. About how often do you buy (FRUIT)
 in this quantity during (THAT SEASON)? d. In what other seasons do you buy fresh (FRUIT)?
- 4. Suppose you were the manager of a store and wanted to get people to buy more of these fresh fruits. What ways can you think of that might get your customers to buy more?
- 5a. What kind of fresh fruit did you buy last? b. (FOR EACH KIND OF FRESH FRUIT BOUGHT) Did you buy (FRUIT) loose or already in some kind of bag or container? c. (FOR EACH KIND OF FRESH FRUIT BOUGHT) Which one of these statements comes closest to describing how you decided to buy (FRUIT)--

Planned to buy this fruit before entering the store?

Planned to buy some kind of fruit, but decided on this kind in the store?

Didn't plan to buy fruit ahead of time, decided to buy this kind in the store?

- 6a. In general, would you like to buy fresh fruit that is already in some kind of bag or container, or would you rather buy it loose? b. (WHETHER PACKAGED OR LOOSE FRUIT IS PREFERRED) Are there any fresh fruits you don't like to buy this way? c. (IF THERE ARE FRESH FRUITS NOT LIKED IN THE WAY GENERALLY PREFERRED) Which ones?
- 7a. What are the advantages of buying fresh fruit loose? b. What are the advantages of buying fresh fruit in some kind of bag or container?
- 8. (SHOW RESPONDENT'S CARD B AND ASK FOR EACH OF THESE FRESH FRUITS--APPLES, BANANAS, GRAPES, PEACHES, PEARS, PLUMS OR FRESH PRUNES) Here's a list of statements which some people have made about fresh fruits. Which of these statements do you feel are especially true about (FRUIT)?
- 9. (SHOW RESPONDENT'S CARD B) How would you rate the importance of each of these factors when you are considering which fresh fruits to purchase? For example would you say "Can be used many ways" is very important, fairly important, or not too important to you?

RESPONDENT'S CARD B

Can be used many ways
Difficult to tell when ripe
Family does not like them
Reasonably priced when in
season
Often bruised, blemished
Hard to digest
Good laxative
Low in calories
Spoils easily

Messy to eat
Can buy ready to use without
further ripening
Good for health
Hard to find variety liked even
in season
Hard to find good quality even
in season

Good for snacks/packed lunches

(IF HOMEMAKER HAS PURCHASED FRESH APPLES IN THE PAST 12 MONTHS -- SEE QUESTION 1a -- ASK THE FOLLOWING QUESTIONS. IF NOT, SKIP TO QUESTION 23)

Fresh Apple Section

Now we would like to know a little more about your use of fresh apples.

10a. Where do you buy fresh apples most often to use at home? b. Where else do you buy them occasionally?

lla. During the fall and winter do you <u>use</u> fresh apples at least once a week <u>or</u> do you use them less often?

b. What about the spring? c. What about the summer? d. (FOR EACH SEASON IN WHICH APPLES ARE USED

LESS OFTEN THAN ONCE A WEEK) Why don't you use them more often during (SEASON)?

12a. During the past year, in which of these ways have you used raw apples in your home? Eaten out-of-hand? Salads? Fruit cups? b. (IF RAW APPLES NOT USED) How come you haven't used any raw apples?

13a. (IF RAW APPLES USED) When are apples eaten raw <u>most often</u> by your family? Meals at home? Packed lunches? Daytime snacks? Evening snacks? b. When else are they eaten in this way? Meals at home? Packed lunches? Daytime snacks? Evening snacks?

14a. (SHOW RESPONDENT'S CARD C) Which of these qualities do you look for when choosing fresh apples for eating raw? b. Which variety or kind of apples do you prefer for eating raw?

RESPONDENT'S CARD C

Shiny Soft skin No blemishes or spots Smooth skin No bruises

Uniform shape Small size Medium size Large size All same size Deep red Bright red

Part red, part green

Green Yellow

Hard Soft

Firm, but not hard

Sweet Tart

Dry Juicy

Variety or kind of apple

15. During the past year have you used fresh apples for cooking or baking?

16a. (SHOW RESPONDENT'S CARD C IF FRESH APPLES USED FOR COOKING OR BAKING DURING THE PAST YEAR) Which of these qualities do you look for when choosing fresh apples for cooking or baking? b. Which variety or kind of apples do you prefer for cooking or baking?

RESPONDENT'S CARD C

SAME AS CARD SHOWN IN QUESTION 14a

17. (IF FRESH APPLES NOT USED FOR COOKING OR BAKING--SEE QUESTION 15) How come you haven't used fresh apples for cooking or baking?

(IF HOMEMAKER HAS USED FRESH APPLES FOR COOKING OR BAKING IN THE PAST YEAR-SEE QUESTION 15-ASK THE FOLLOWING QUESTIONS. IF NOT, SKIP TO QUESTION 20a)

- 18a. During the past year, in which of these ways have you used fresh apples for cooking or baking? Homemade applesauce? Baked apples? Apple cake? Apple pie? Other dessert? Some other way? b. What percentage of all the fresh apples bought during the past year did you use for cooking or baking?
- 19a. Do you sometimes buy a certain variety or kind of apple especially for cooking or baking? b. (IF HOMEMAKER DOES NOT BUY A CERTAIN VARIETY FOR BAKING OR COOKING) Why not?

(ASK EVERYONE WHO HAS BOUGHT FRESH APPLES IN THE PAST YEAR)

- 20a. Do you have any difficulty in finding good fresh apples for cooking or eating raw? b. (IF HOME-MAKER HAD DIFFICULTY) Is that at any particular time of year? c. (IF HOMEMAKER HAD DIFFICULTY AT ANY PARTICULAR TIME OF YEAR) At what particular time of year does this occur? d. (IF HOMEMAKER HAD DIFFICULTY WITH ANY SPECIAL VARIETY OR KIND OF APPLE) With what particular variety or kind of apples does this occur?
- 21a. Have you been disappointed in apples that you have bought during the past year? b. (IF DISAPPOINTED) In what ways? c. (IF DISAPPOINTED) Where did you buy the apples you did not like?
- 22a. Have you bought something else at any time in the past year when you would have preferred to buy apples? b. (IF SOMETHING ELSE BOUGHT) What did you buy (LAST TIME)? c. (IF SOMETHING ELSE BOUGHT) What were the circumstances?
- 23. (IF AT LEAST ONE FRESH FRUIT HAS BEEN BOUGHT IN THE PAST YEAR--SEE QUESTION 1a) Is there anything you don't like so well about using fresh apples? Apricots? Cherries? Grapes? Nectarines? Peaches? Pears? Pineapple? Plums or fresh prunes?

Processed Fruits and Juices Section

- 24a. Which of these canned fruits have you bought within the past 12 months for use in your home? Apples? Apricots? Peaches? Pears? Sweet cherries? Sour cherries? Plums or prunes? Fruit cocktail or salad? Pineapple? b. Which of these juices have you bought in the past 12 months? Apple? Grape? Pineapple? Prune?
- 25a. Have you bought any dried prunes in the past 12 months? b. (IF DRIED PRUNES NOT BOUGHT) How come you don't buy dried prunes? c. (IF DRIED PRUNES BOUGHT) What are your main reasons for buying dried prunes? d. (IF DRIED PRUNES BOUGHT) What, if anything, don't you like so well about them? e. (IF DRIED PRUNES BOUGHT) How often have you used them in the past year?
- 26a. Have you used raisins in your home in the last year? b. (IF RAISINS USED) About how often have you used raisins in the last year?
- 27a. Have you bought any applesauce in cans or jars in the past 12 months? b. (IF APPLESAUCE BOUGHT) How do you generally use the applesauce you buy?
- 28a. (IF APPLESAUCE BOUGHT) Which do you prefer, homemade applesauce or the kind you can buy in the store? b. (IF EITHER TYPE IS PREFERRED) Why is that?
- 29a. How would you describe the way good applesauce should look and taste? b. (IF "COLOR" NOT MENTIONED) What about color? c. (IF "CONSISTENCY" NOT MENTIONED) What about consistency?

CLASSIFICATION DATA

30a. How many members including yourself, are there living in this household? b. How many of them are:

adult males, 19 & over? adult females, 19 & over? young people, 13-18 children, 6-12? children under 6?

- 31. What was the last grade you completed at school?
- 32. Are you married or single?
- 33. What was your age on your last birthday?

- 34a. What is the occupation of the head of the household? b. In what type of business or industry does he/she work?
- 35a. What is your occupation? b. (IF EMPLOYED) In what type of business or industry do you work? c. (IF EMPLOYED) Are you employed part time/full time?
- 36. (SHOW INCOME CARD) Into which of these groupings does your combined family income from all sources of all those in your immediate household fall? (Please include income from salaries, investments, dividends, net income from farming or self-employment, rent, royalties, capital gains from sales, bonuses, commissions, etc.)

RESPONDENT'S CARD D

Under \$2,000 \$2,000 to \$2,999 \$3,000 to \$3,999 \$4,000 to \$4,999 \$5,000 to \$5,999 \$6,000 to \$6,999 \$7,000 to \$7,999 \$8,000 to \$8,999 \$9,000 to \$10,999 \$11,000 to \$14,999 \$15,000 or over

37. Sex of respondent.





